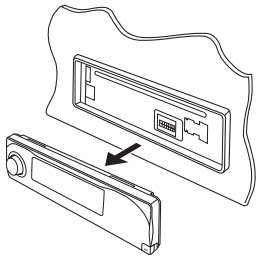
JVC

# SERVICE MANUAL

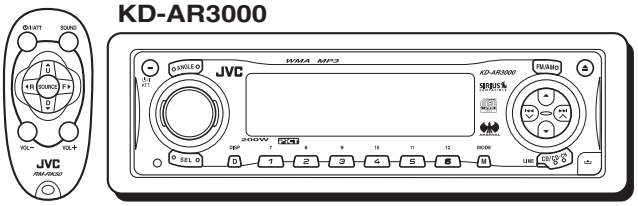
## CD RECEIVER

# KD-AR3000, KD-LH300

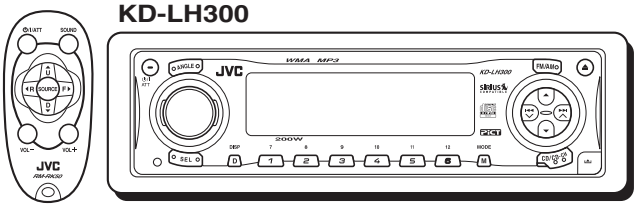
| Area suffix |
| --- |
| J ---------- Northern America |



KD-AR3000



KD-LH300



| | KD-AR3000 | KD-LH300 |
| --- | --- | --- |
| Line input terminal | ○ | × |
| Amplifier gain control | ○ | × |
| Power antenna control | ○ | × |

WMA

MP3

PICT

SIRIUS COMPATIBLE

COMPACT disc DIGITAL AUDIO TEXT

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No.MA042
2004/1

# SPECIFICATION

| | | |
|---|---|---|
| **AUDIO AMPLIFIER SECTION** | | |
| Maximum Power Output | Front | 50 W per channel |
| | Rear | 50 W per channel |
| Continuous Power Output (RMS) | Front | 19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion. |
| | Rear | 19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion. |
| Load Impedance | | 4 Ω (4 Ω to 8 Ω allowance) |
| Equalizer Control Range | Frequencies | 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 12 kHz |
| | Level | ±10 dB |
| Frequency Response | | 40 Hz to 20 000 Hz |
| Signal-to-Noise Ratio | | 70 dB |
| Line-Out Level/Impedance | KD-AR3000 | 1.5 V/20 kΩ load |
| Line-Out Level/Impedance | KD-AR3000 | 5.0 V/20 kΩ load (full scale) |
| | KD-LH300 | 4.0 V/20 kΩ load (full scale) |
| Output Impedance | | 1 kΩ |
| Subwoofer-Out Level/Impedance | | 2.0 V/20 kΩ load (full scale) |
| **TUNER SECTION** | | |
| Frequency Range | FM | 87.5 MHz to 107.9 MHz |
| | AM | 530 kHz to 1 710kHz |
| [FM Tuner] | Usable Sensitivity | 11.3 dBf (1.0 μV/75 Ω) |
| | 50 dB Quieting Sensitivity | 16.3 dBf (1.8 μV/75 Ω) |
| | Alternate Channel Selectivity (400 kHz) | 65 dB |
| | Frequency Response | 40 Hz to 15 000 Hz |
| | Stereo Separation | 30 dB |
| | Capture Ratio | 1.5 dB |
| [MW Tuner] | Sensitivity | 20 μV |
| | Selectivity | 35 dB |
| **CD PLAYER SECTION** | | |
| Type | | Compact disc player |
| Signal Detection System | | Non-contact optical pickup (semiconductor laser) |
| Number of channels | | 2 channels (stereo) |
| Frequency Response | | 5 Hz to 20 000 Hz |
| Dynamic Range | | 96 dB |
| Signal-to-Noise Ratio | | 98 dB |
| Wow and Flutter | | Less than measurable limit |
| MP3 decoding format | | MPEG 1/2 Audio Layer 3. Max. Bit Rate: 320 Kbps |
| WMA (Windows Media Audio) decoding format | | Max. Bit Rate: 192 Kbps |
| **GENERAL** | | |
| Power Requirement | Operating Voltage | DC 14.4 V (11 V to 16 V allowance) |
| Grounding System | | Negative ground |
| Allowable Operating Temperature | | 0ºC to +40ºC (32ºF to 104ºF) |
| Dimensions (W × H × D) | Installation Size (approx.) | 182 mm × 52 mm × 159 mm (7-3/16" × 2-1/16" × 6-5/16") |
| | Panel Size (approx.) | 188 mm × 58 mm × 12 mm (7-7/16" × 2-5/16" × 1/2") |
| Mass (approx.) | | 1.6 kg (3.5 lbs) (excluding accessories) |

Design and specifications are subject to change without notice.

# SECTION 1
# PRECAUTION

## 1.1 Safety Precautions

> ⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

> ⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

### 1.2 Preventing static electricity

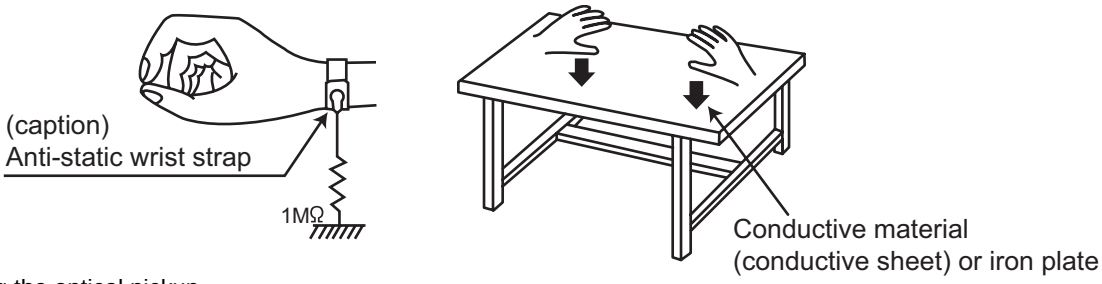
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

#### 1.2.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.




(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

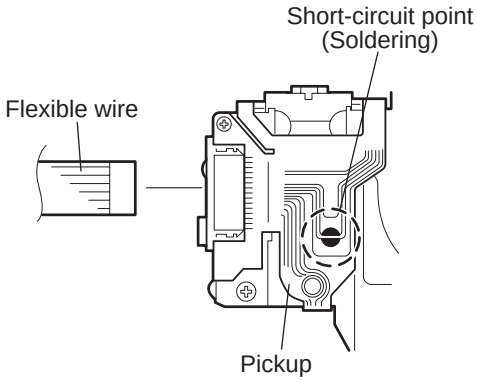
### 1.3 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

### 1.4 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the CD pickup unit.**

- Apply solder to the short land before the flexible wire is disconnected from the connector on the CD pickup unit. (If the flexible wire is disconnected without applying solder, the CDpickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land after connecting the flexible wire.



# SECTION 2
# SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

# SECTION 3
# DISASSEMBLY

## 3.1 Main body

### 3.1.1 Removing the front panel assembly (See Fig.1)

(1) Push the detach button in the lower right part of the front panel assembly.
(2) Remove the front panel assembly.

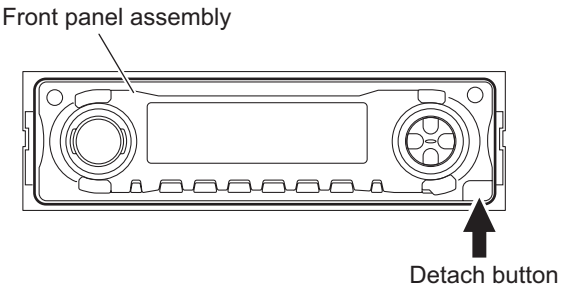



Fig.1

### 3.1.2 Removing the heat sink (See Fig.2)

(1) From the left side of the main body, remove the two screws **A** and three screws **B** attaching the heat sink.

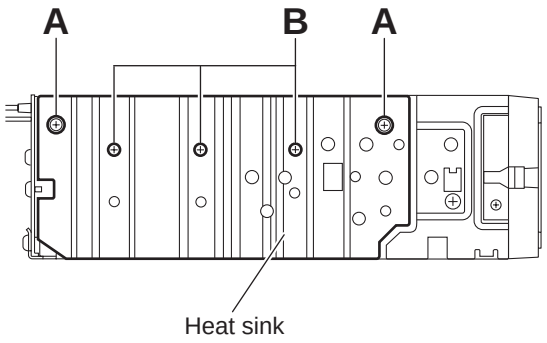



Fig.2

### 3.1.3 Removing the top chassis assembly (See Figs.3 to 6)

- Prior to performing the following procedures, remove the heat sink.

**Reference:**

Remove the front panel assembly as required.

(1) From the bottom side of the main body, remove the two screws **C** attaching the top chassis assembly to the bottom chassis assembly. (See Fig.3.)

(2) From the both and rear sides of the main body, remove the four screws **D** attaching the top chassis assembly to the bottom chassis assembly. (See Figs.4 to 6.)

(3) Lift the top chassis assembly in the direction of the arrow, disconnect the connector CN501 on the mechanism control board from the connector CN702 on the main board. (See Figs.5 and 6.)

(4) Take out the top chassis assembly from the bottom chassis assembly.

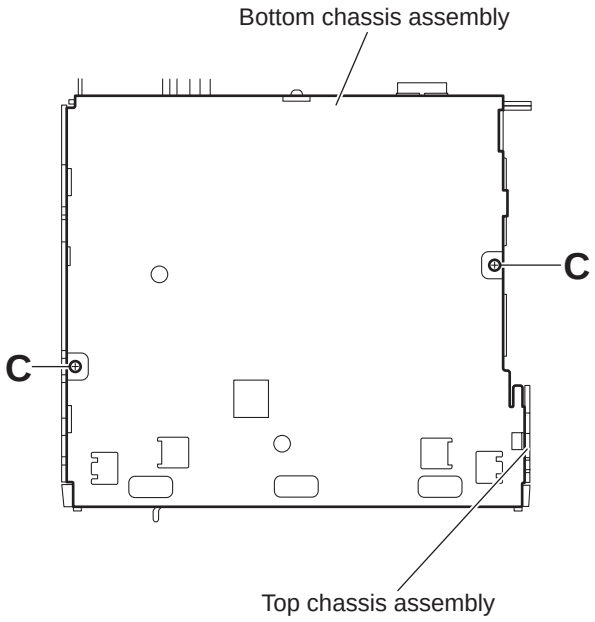


Fig.3

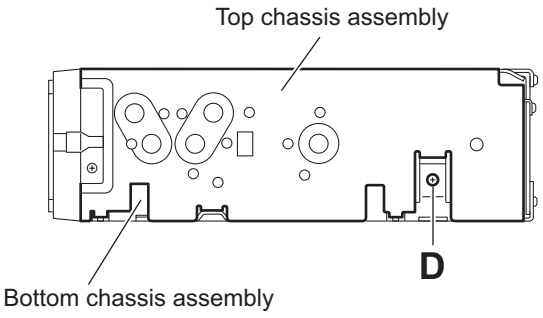


Fig.4

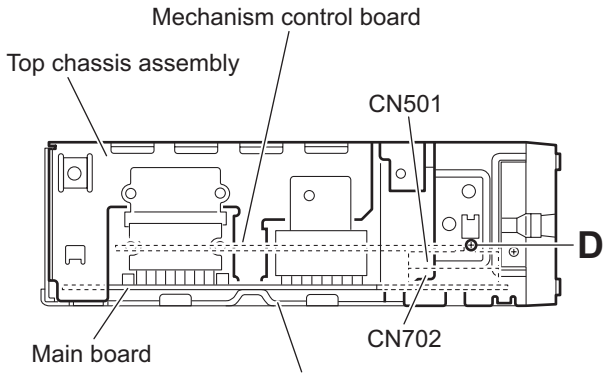


Fig.5

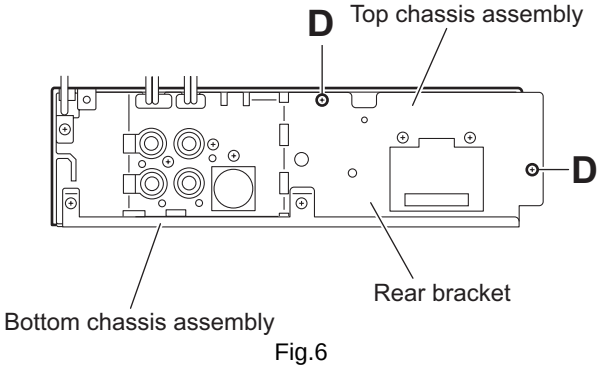


Fig.6

### 3.1.4 Removing the front chassis (See Figs.7 and 8)

- Prior to performing the following procedure, remove the front panel assembly, heat sink and top chassis assembly.
  (1) From the both sides of the top chassis assembly, remove the two screws **E** attaching the front chassis.

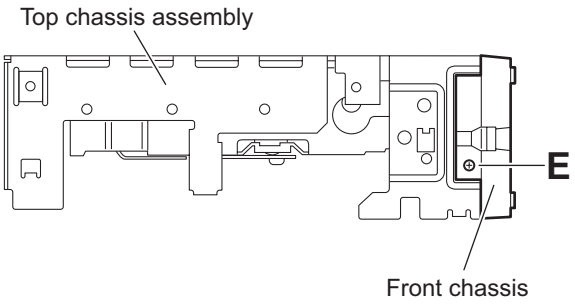



Fig.7

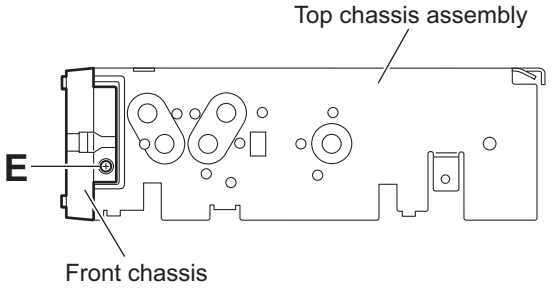



Fig.8

### 3.1.5 Removing the mechanism control board (See Fig.9)

- Prior to performing the following procedures, remove the front panel assembly, heat sink and top chassis assembly.
  (1) Disconnect the card wire from the connector CN601 on the mechanism control board.
  (2) Remove the five screws **F** attaching the mechanism control board.
  (3) Release the joints **a** and **b**, remove the mechanism control board.

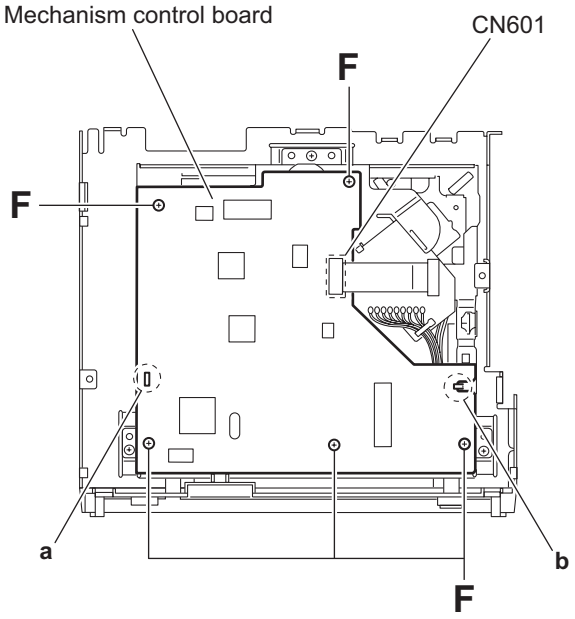



Fig.9

### 3.1.6 Removing the CD mechanism assembly (See Fig.10)

- Prior to performing the following procedures, remove the front panel assembly, heat sink and top chassis assembly.

**Reference:**

Remove the mechanism control board as required.

(1) From the inside of the top chassis assembly, remove the three screws **G** attaching the CD mechanism assembly.
(2) Take out the CD mechanism assembly from the top chassis.

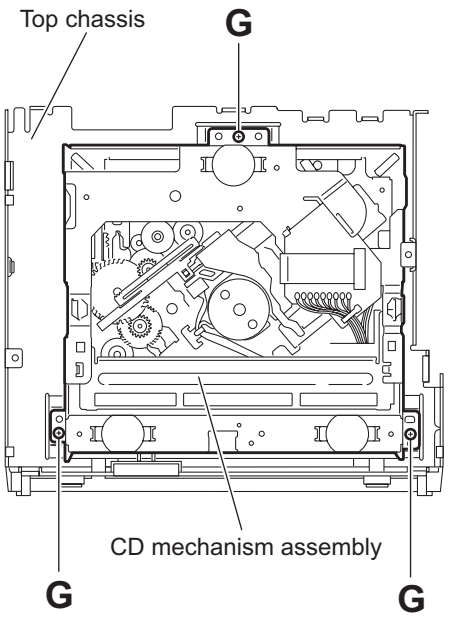



Fig.10

### 3.1.7 Removing the main board (See Figs.11 and 12)

- Prior to performing the following procedures, remove the front panel assembly, heat sink and top chassis assembly.

(1) From the rear side of the bottom chassis assembly, remove the two screws **H** attaching the rear bracket to the bottom chassis assembly. (See Fig.11.)
(2) From the top side of the bottom chassis assembly, remove the two screws **J** attaching the main board to the bottom chassis assembly. (See Fig.12.)
(3) Release the stopper of the connector CN701 on the main board in an upward direction, disconnect the card wire from the connector CN701. (See Fig.12.)
(4) Disconnect the wire from the connector of the front door mechanism assembly. (See Fig.12.)
(5) Disconnect the wire from the connector CN951 on the main board. (See Fig.12.)

**Reference:**

After connecting the wires, fix the wires with the wire holders.

(6) Take out the main board from the bottom chassis assembly.

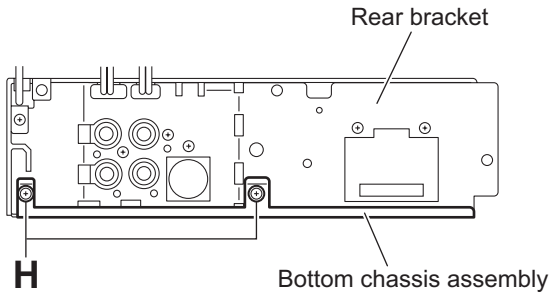



Fig.11

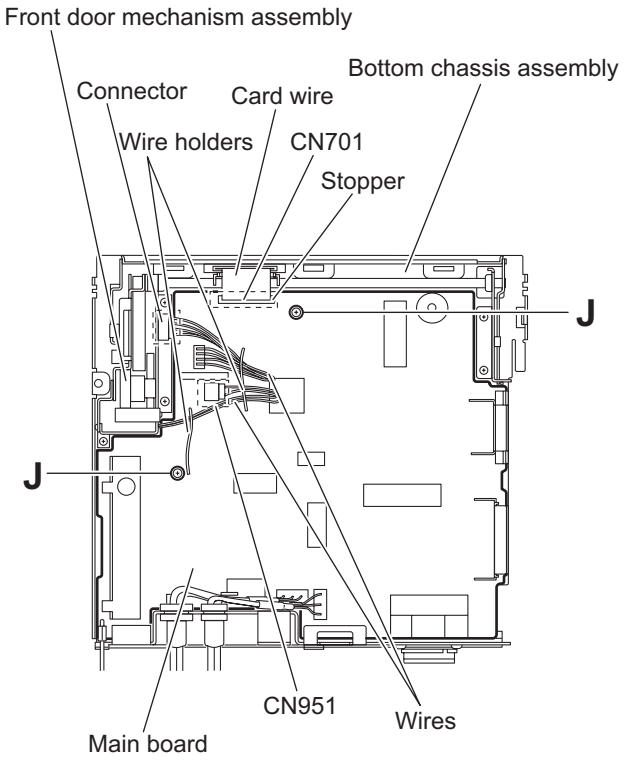



Fig.12

### 3.1.8 Removing the rear bracket (See Fig.13)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, top chassis assembly and main board.
  (1) From the rear side of the main board, remove the wires from the rear bracket in the direction of the arrow.
  (2) Remove the two screws **K** and three screws **L** attaching the rear bracket to the main board.

  **Reference:**

  After attaching the rear bracket to the main board, pass the wires through the wire holder and insert them into the slots of the rear bracket.

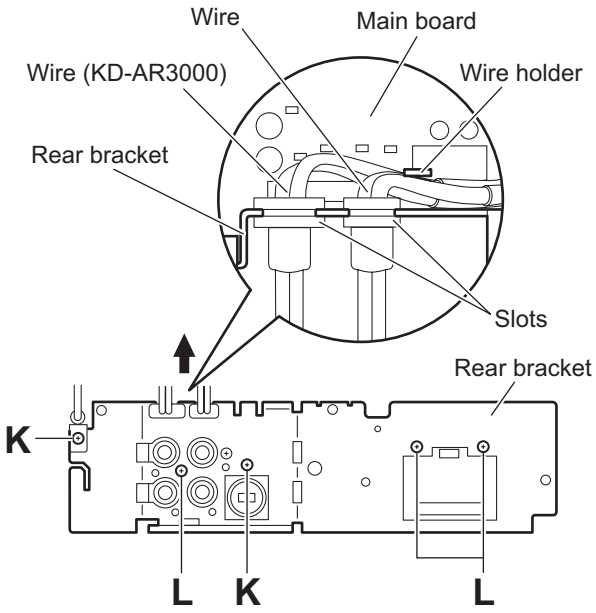



Fig.13

### 3.1.9 Removing the front door mechanism assembly (See Fig.14.)

- Prior to performing the following procedures, remove the front panel assembly, heat sink, top chassis assembly and main board.
  (1) From the top side of the bottom chassis assembly, remove the screw **M** attaching the shaft holder to the bottom chassis.
  (2) Remove the five screws **N** attaching the front door mechanism assembly to the bottom chassis.

  **Reference:**

  When attaching the screws **M** and **N**, apply a locking agent them.
  (3) Take out the front door mechanism assembly from the bottom chassis.

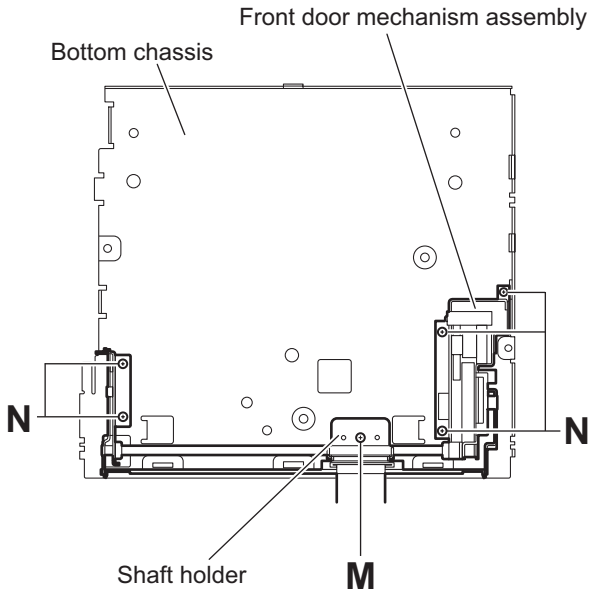



Fig.14

### 3.1.10 removing the front board
**(See Figs.15 to 18)**

- Prior to performing the following procedures, remove the front panel assembly.
  (1) From the rear side of the front panel assembly, remove the four screws **P** attaching the rear cover assembly to the front panel assembly. (See Fig.15.)
  (2) Release the twelve joints **c** of the front panel assembly and remove the rear cover assembly. (See Fig.16.)
  (3) From the left side of the front panel assembly, pull out the knob in the direction of the arrow 2 while pulling the front board in the direction of the arrow 1. (See Fig.17.)
  (4) Take out the front board from the front panel assembly. (See Fig.18.)

  **Note:**
  When removing the rear cover assembly and front board, be careful not to lose the comp. spring. (See Fig.18.)

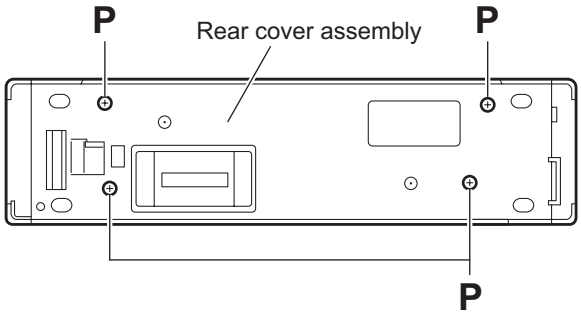


Fig.15

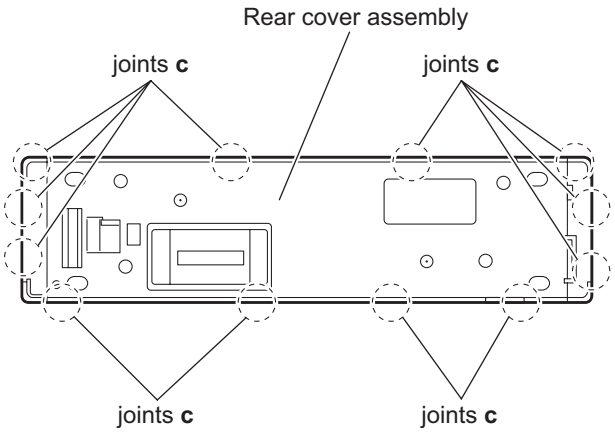


Fig.16

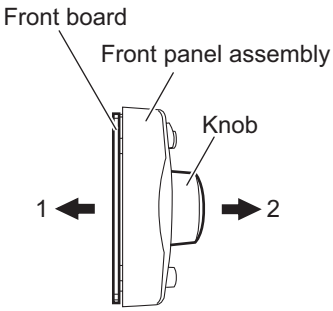


Fig.17

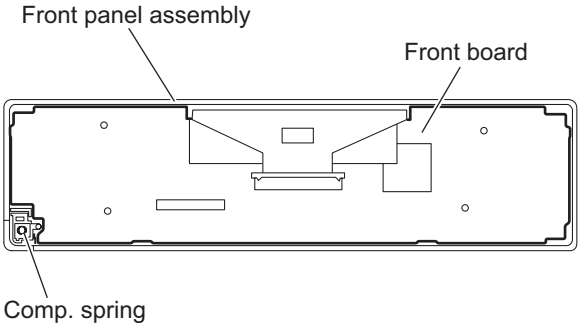


Fig.18

### 3.2 CD Mechanism section

#### 3.2.1 Removing the top cover (See Figs.1 and 2)

(1) Remove the four screws **A** on the both side of the body.
(2) Lift the front side of the top cover and move the top cover backward to release the two joints **a**.

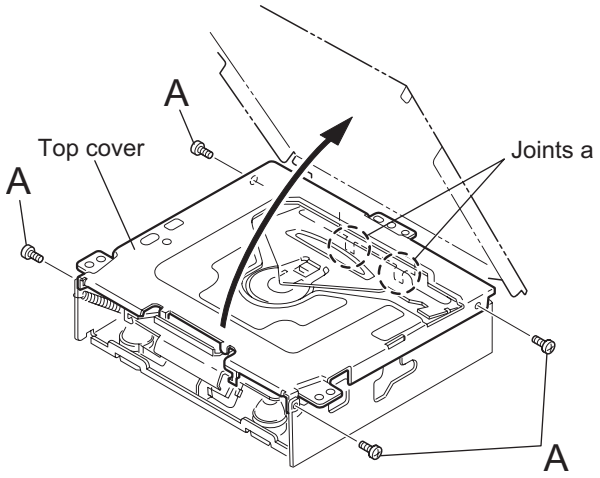



Fig.1

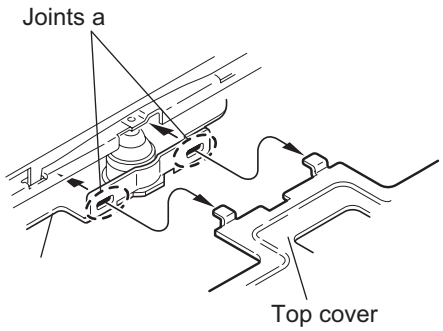



Fig.2

### 3.2.2 Removing the connector board (See Figs.3 to 5)

**CAUTION:**

Before disconnecting the flexible wire from the pickup, solder the short-circuit point on the pickup. No observance of this instruction may cause damage of the pickup.

(1) Remove the screw **B** fixing the connector board.
(2) Solder the short-circuit point on the pickup.
(3) Disconnect the flexible wire from the pickup.
(4) Move the connector board in the direction of the arrow to release the two joints **b**.
(5) Unsolder the wires on the connector board if necessary.

**CAUTION:**

Unsolder the short-circuit point after reassembling.

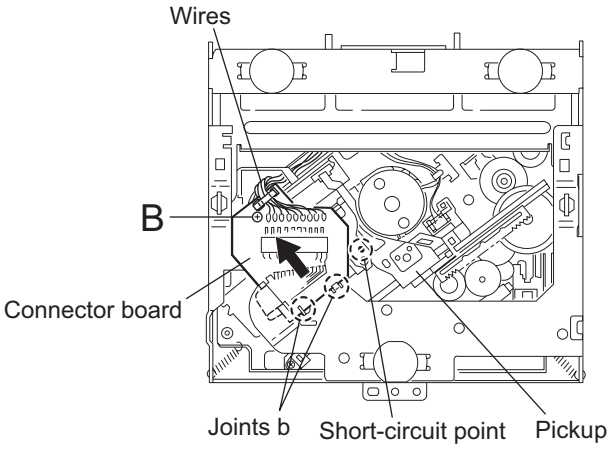


Fig.3

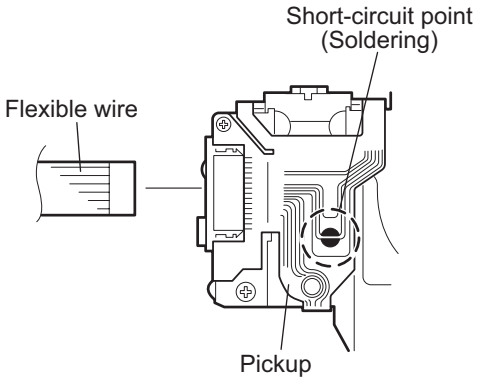


Fig.4

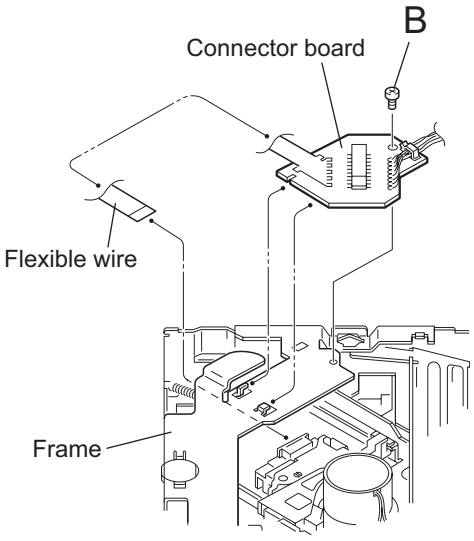


Fig.5

### 3.2.3 Removing the DET switch (See Figs.6 and 7)

(1) Extend the two tabs **c** of the feed sw. holder and pull out the switch.
(2) Unsolder the DET switch wire if necessary.

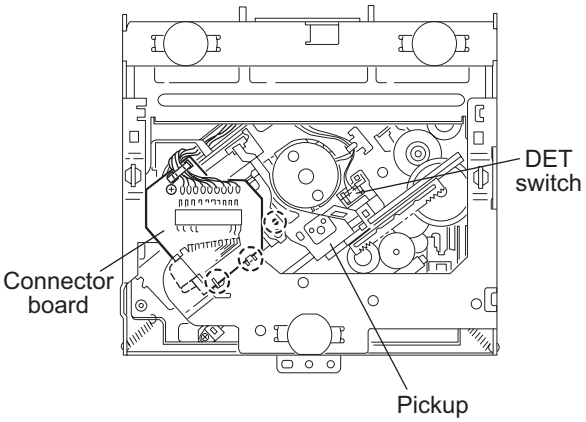



Fig.6

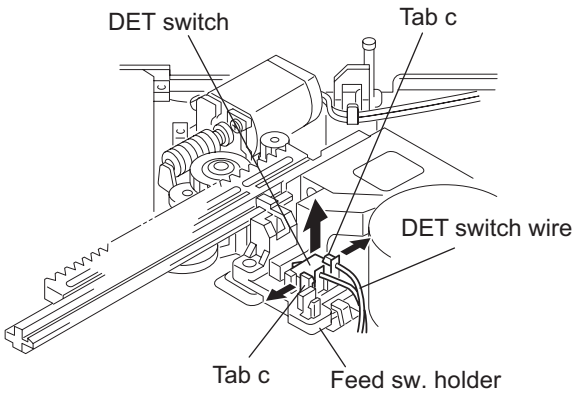



Fig.7

### 3.2.4 Removing the chassis unit (See Figs.8 and 9)

- Prior to performing the following procedure, remove the top cover and connector board.
  (1) Remove the two suspension springs (L) and (R) attaching the chassis unit to the frame.

**CAUTION:**

- The shape of the suspension spring (L) and (R) are different. Handle them with care.
- When reassembling, make sure that the three shafts on the underside of the chassis unit are inserted to the dampers certainly.

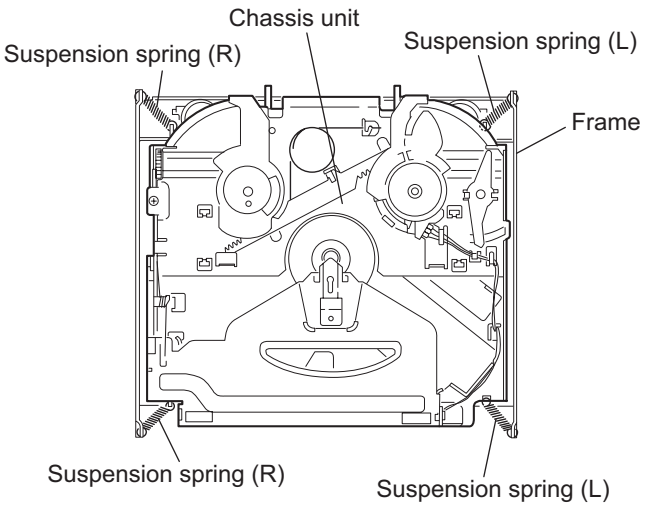



Fig.8

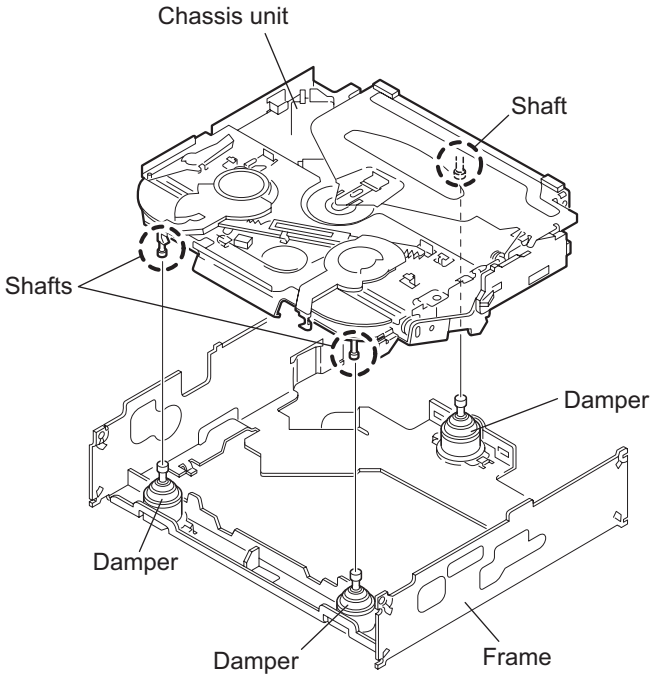



Fig.9

### 3.2.5 Removing the clamper assembly (See Figs.10 and 11)

- Prior to performing the following procedure, remove the top cover.
  (1) Remove the clamper arm spring.
  (2) Move the clamper assembly in the direction of the arrow to release the two joints **d**.

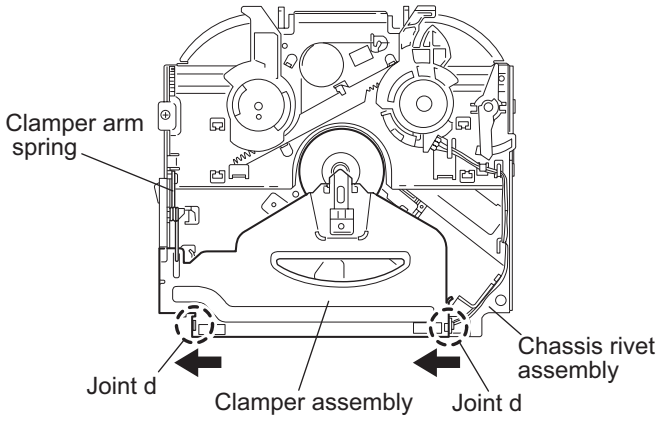


Fig.10

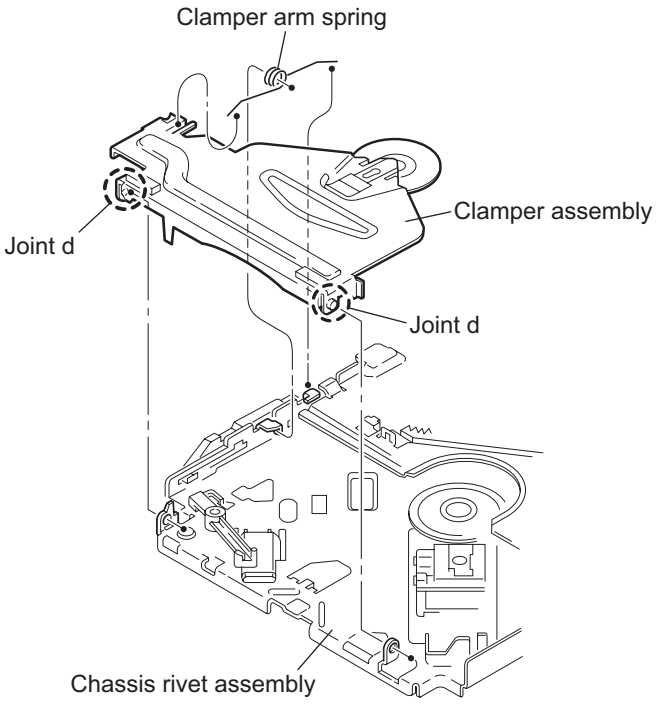


Fig.11

### 3.2.6 Removing the loading / feed motor assembly (See Figs.12 and 13)

- Prior to performing the following procedure, remove the top cover, connector board and chassis unit.
  (1) Remove the screw **C** and move the loading / feed motor assembly in the direction of the arrow to remove it from the chassis rivet assembly.
  (2) Disconnect the wire from the loading / feed motor assembly if necessary.

  **CAUTION:**
  When reassembling, connect the wire from the loading / feed motor assembly to the flame as shown in Fig.12.

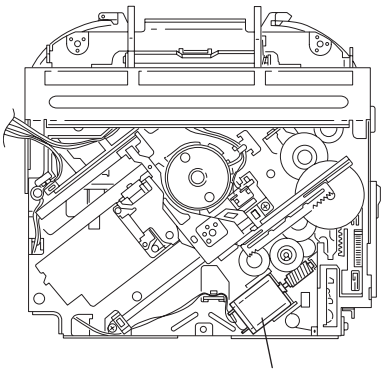



Fig.12

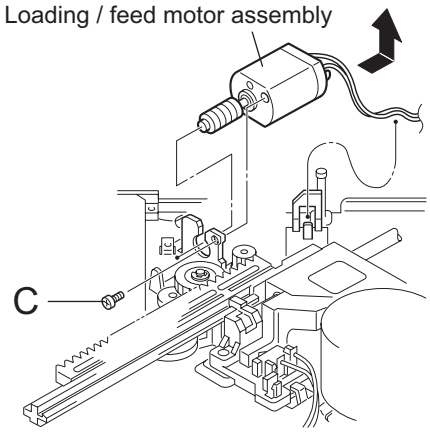



Fig.13

### 3.2.7 Removing the pickup unit (See Figs.14 to 18)

- Prior to performing the following procedure, remove the top cover, connector board and chassis unit.
  (1) Remove the screw **D** and pull out the pu. shaft holder from the pu. shaft.
  (2) Remove the screw **E** attaching the feed sw. holder.
  (3) Move the part **e** of the pickup unit upward with the pu. shaft and the feed sw. holder, then release the joint **f** of the feed sw. holder in the direction of the arrow. The joint **g** of the pickup unit and the feed rack is released, and the feed sw. holder comes off.
  (4) Remove the pu. shaft from the pickup unit.
  (5) Remove the screw **F** attaching the feed rack to the pickup unit.

### 3.2.8 Reattaching the pickup unit (See Figs.14 to 17)

(1) Reattach the feed rack to the pickup unit using the screw **F**.
(2) Reattach the feed sw. holder to the feed rack while setting the joint **g** to the slot of the feed rack and setting the joint **f** of the feed rack to the switch of the feed sw. holder correctly.
(3) As the feed sw. holder is temporarily attached to the pickup unit, set to the gear of the joint **g** and to the bending part of the chassis (joint **h**) at a time.

**CAUTION:**

Make sure that the part i on the underside of the feed rack is certainly inserted to the slot j of the change lock lever.

(4) Reattach the feed sw. holder using the screw **E**.
(5) Reattach the pu. shaft to the pickup unit. Reattach the pu. shaft holder to the pu. shaft using the screw **D**.

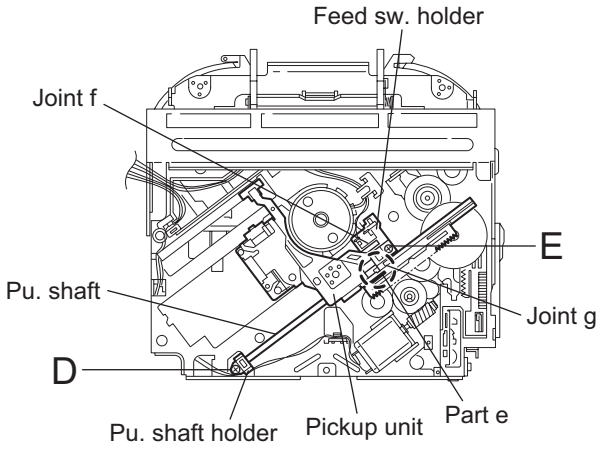


Fig.14

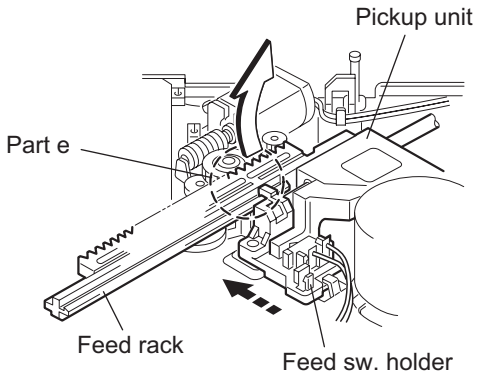


Fig.15

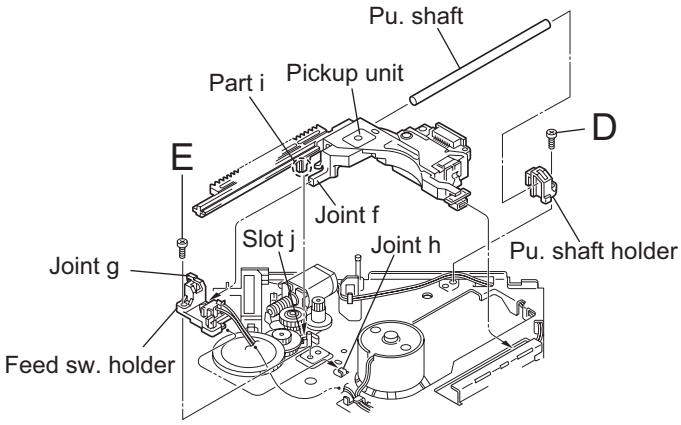


Fig.16

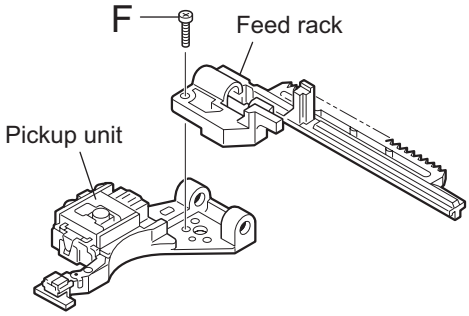


Fig.17

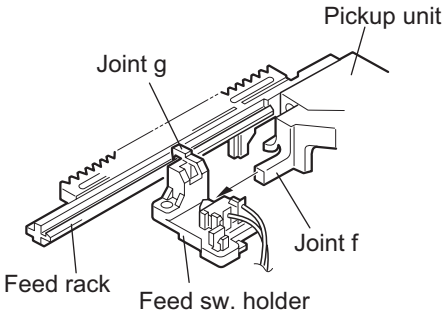


Fig.18

### 3.2.9 Removing the trigger arm (See Figs.19 and 20)

- Prior to performing the following procedure, remove the top cover, connector board and clamper unit.
  (1) Turn the trigger arm in the direction of the arrow to release the joint **k** and pull out upward.

**CAUTION:**

When reassembling, insert the part m and n of the trigger arm into the part p and q at the slot of the chassis rivet assembly respectively and join the joint **k** at a time.

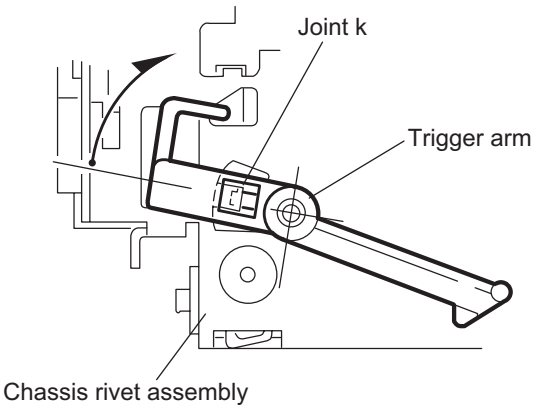



Fig.19

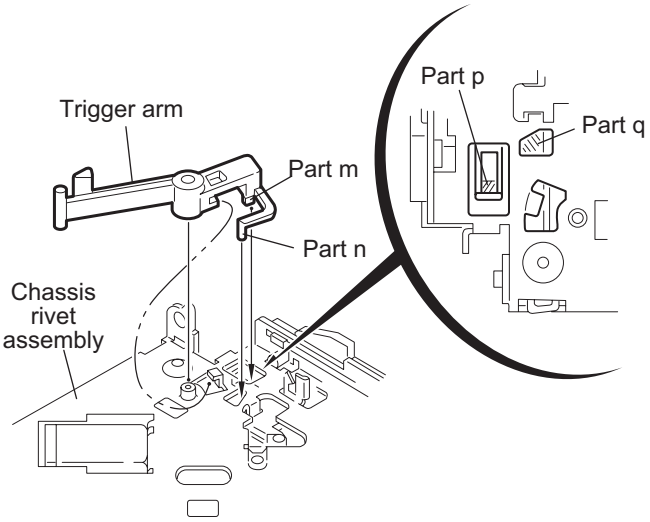



Fig.20

### 3.2.10 Removing the top plate assembly (See Fig.21)

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit, and clamper assembly.
  (1) Remove the screw **H**.
  (2) Move the top plate assembly in the direction of the arrow to release the two joints **r**.
  (3) Unsolder the wire marked s if necessary.

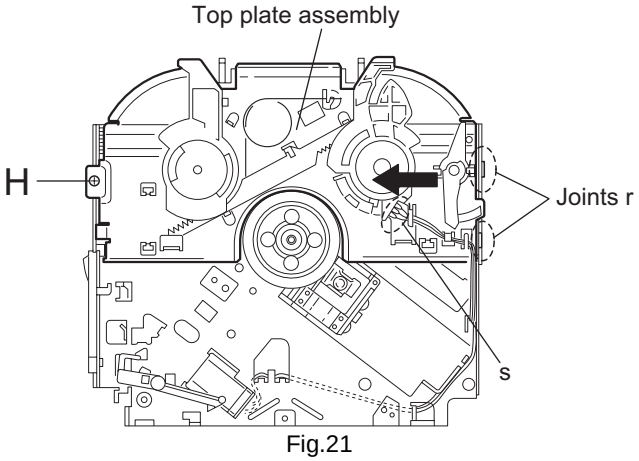



Fig.21

### 3.2.11 Removing the mode sw. / select lock arm (See Figs.22 and 23)

- Prior to performing the following procedure, remove the top plate assembly.
  (1) Bring up the mode sw. to release from the link plate (joint **t**) and turn in the direction of the arrow to release the joint **u**.
  (2) Unsolder the wire of the mode sw. marked s if necessary.
  (3) Turn the select lock arm in the direction of the arrow to release the two joints **v**.
  (4) The select lock arm spring comes off the select lock arm at the same time.

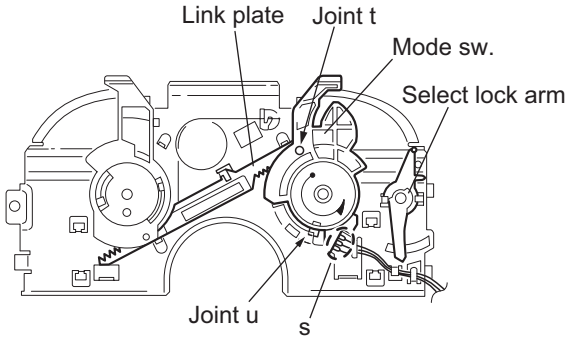



Fig.22

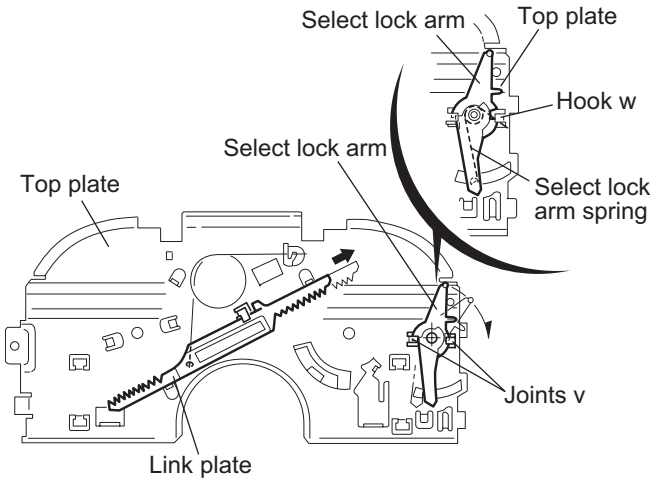



Fig.23

### 3.2.12 Reassembling the mode sw. / select lock arm (See Figs.24 to 26)

**REFERENCE:**

Reverse the above removing procedure.

(1) Reattach the select lock arm spring to the top plate and set the shorter end of the select lock arm spring to the hook w on the top plate.

(2) Set the other longer end of the select lock arm spring to the boss x on the underside of the select lock arm, and join the select lock arm to the slots (joint **v**). Turn the select lock arm as shown in the figure.

(3) Reattach the mode sw. while setting the part t to the first peak of the link plate gear, and join the joint **u**.

**CAUTION:**

When reattaching the mode sw., check if the points y and z are correctly fitted and if each part operates properly.

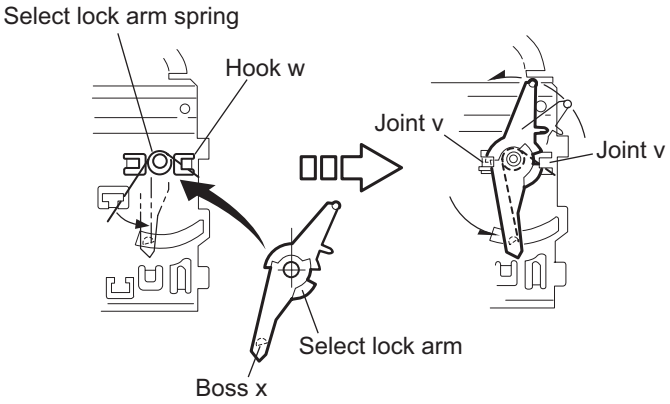



Fig.24

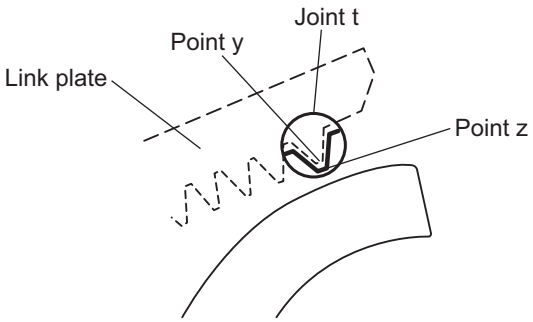



Fig.25

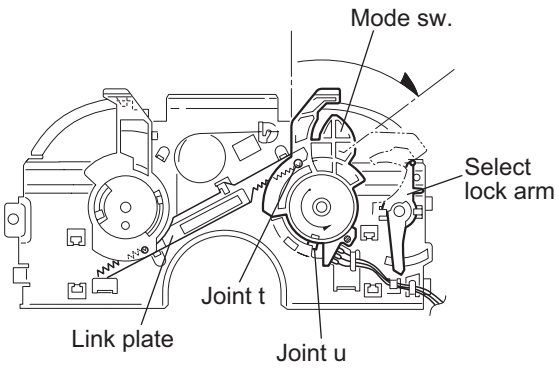



Fig.26

### 3.2.13 Removing the select arm R / link plate (See Figs.27 and 28)

- Prior to performing the following procedure, remove the top plate assembly.
  (1) Bring up the select arm R to release from the link plate (joint a') and turn as shown in the figure to release the two joints **b'** and joint **c'**.
  (2) Move the link plate in the direction of the arrow to release the joint **d'**. Remove the link plate spring at the same time.

**REFERENCE:**

Before removing the link plate, remove the mode sw..

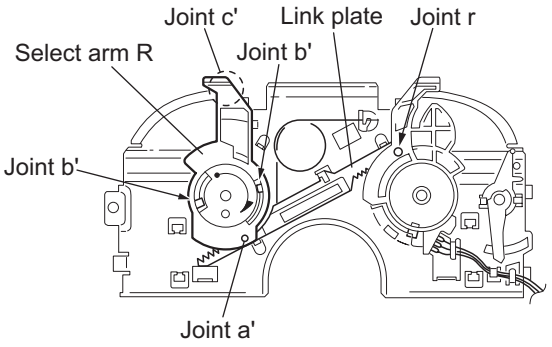



Fig.27

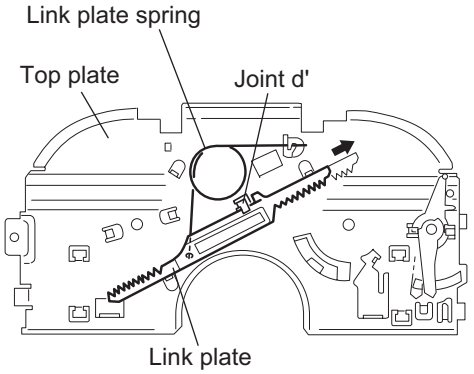



Fig.28

### 3.2.14 Reattaching the Select arm R / link plate (See Figs.29 and 30)

**REFERENCE:**

Reverse the above removing procedure.

(1) Reattach the link plate spring.
(2) Reattach the link plate to the link plate spring while joining them at joint **d'**.
(3) Reattach the joint **a'** of the select arm R to the first peak of the link plate while joining the two joints **b'** with the slots. Then turn the select arm R as shown in the figure. The top plate is joined to the joint **c'**.

**CAUTION:**

When reattaching the select arm R, check if the points **e'** and **f'** are correctly fitted and if each part operates properly.

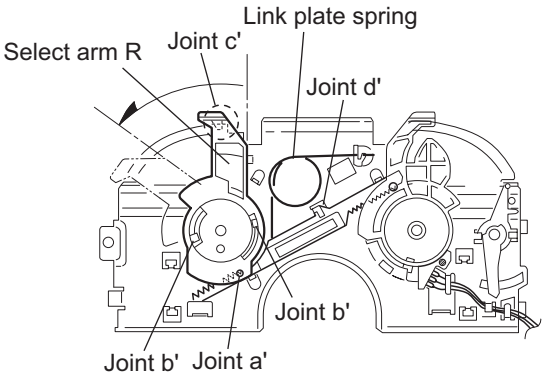



Fig.29

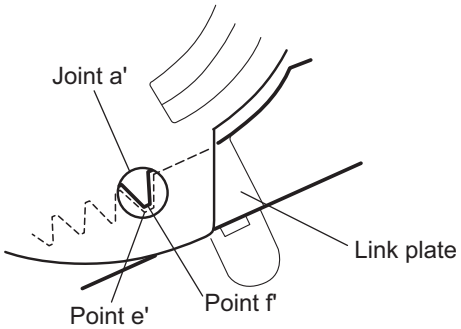



Fig.30

### 3.2.15 Removing the loading roller assembly (See Figs.31 to 33)

- Prior to performing the following procedure, remove the clamper assembly and top plate assembly.
  (1) Push inward the loading roller assembly on the gear side and detach it upward from the slot of the joint **g'** of the lock arm rivet assembly.
  (2) Detach the loading roller assembly from the slot of the joint **h'** of the lock arm rivet assembly.

      The roller guide comes off the gear section of the loading roller assembly.

      Remove the roller guide and the HL washer from the shaft of the loading roller assembly.
  (3) Remove the screw **J** attaching the lock arm rivet assembly.
  (4) Push the shaft at the joint **i'** of the lock arm rivet assembly inward to release the lock arm rivet assembly from the slot of the L side plate.
  (5) Extend the lock arm rivet assembly outward and release the joint **j'** from the boss of the chassis rivet assembly. The roller guide springs on both sides come off at the same time.

  **CAUTION:**

  When reassembling, reattach the left and right roller guide springs to the lock arm rivet assembly before reattaching the lock arm rivet assembly to the chassis rivet assembly. Make sure to fit the part k' of the roller guide spring inside of the roller guide. (Refer to Fig.34.)

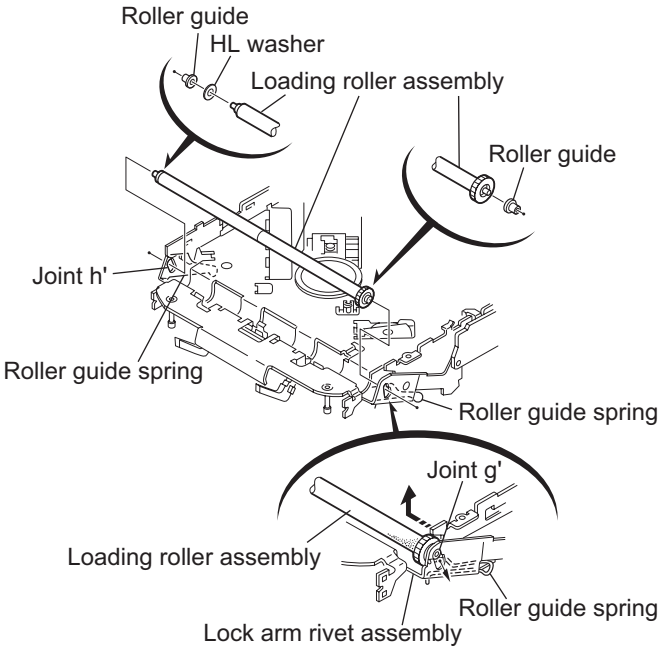



Fig.31

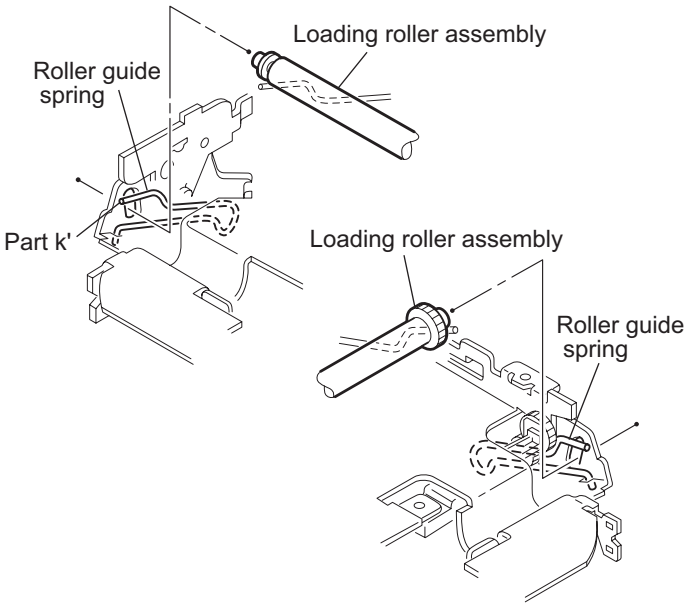



Fig.32

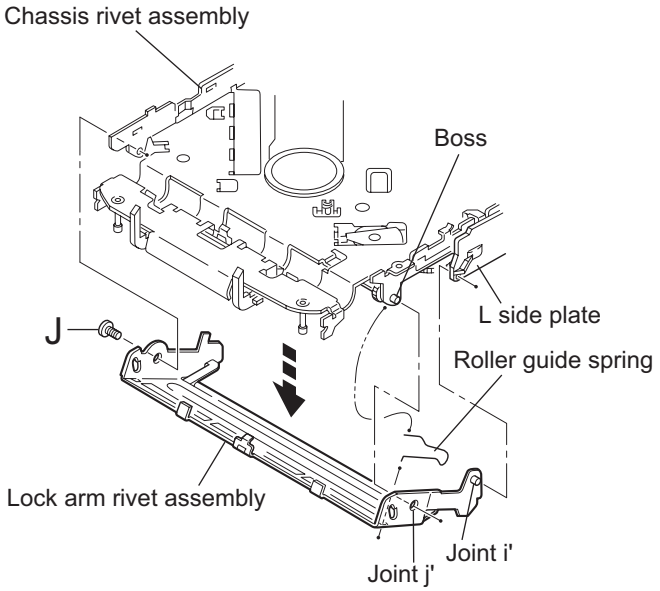



Fig.33

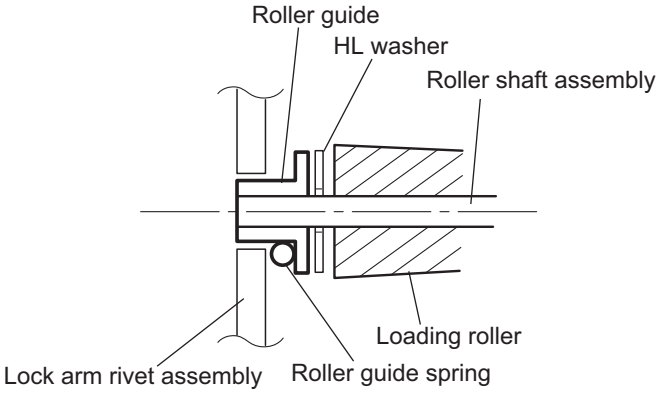



Fig.34

### 3.2.16 Removing the loading gear 5, 6 and 7 (See Figs.35 and 36)

- Prior to performing the following procedure, remove the top cover, chassis unit, pickup unit and top plate assembly.
  (1) Remove the screw **K** attaching the loading gear bracket. The loading gear 6 and 7 come off the loading gear bracket.
  (2) Pull out the loading gear 5.

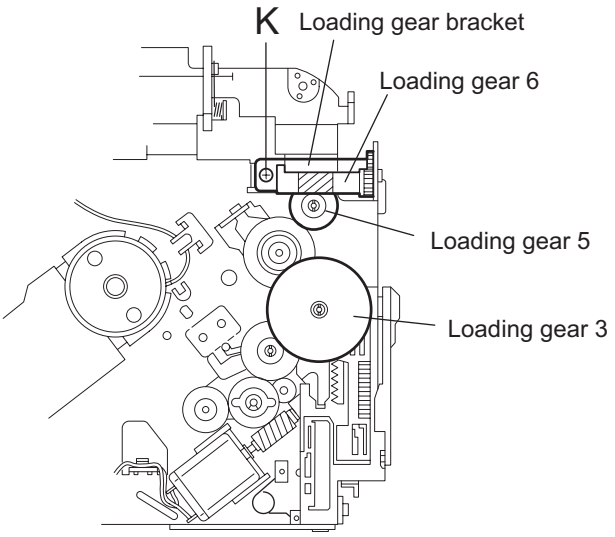



Fig.35

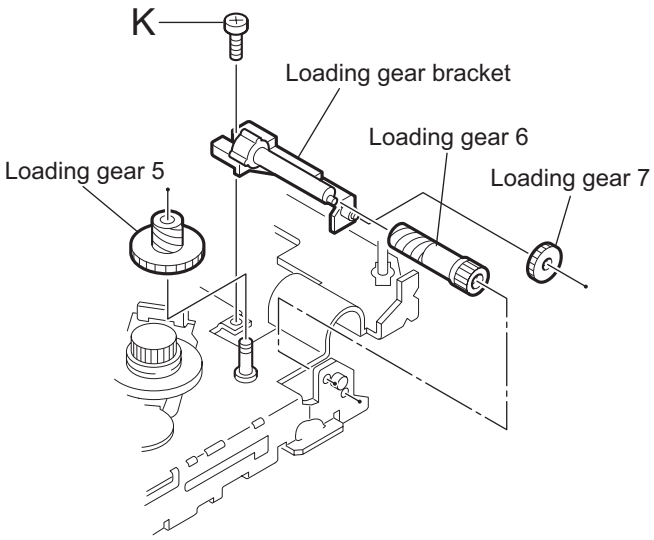



Fig.36

### 3.2.17 Removing the gears
**(See Figs.37 to 40)**

- Prior to performing the following procedure, remove the top cover, chassis unit, top plate assembly and pickup unit.
- Pull out the loading gear 3. (See Fig.35.)
  (1) Pull out the feed gear.
  (2) Move the loading plate assembly in the direction of the arrow to release the L side plate from the two slots m' of the chassis rivet assembly. (See Fig.37.)
  (3) Detach the loading plate assembly upward from the chassis rivet assembly while releasing the joint **n'**. Remove the slide hook and loading plate spring from the loading plate assembly.
  (4) Pull out the loading gear 2 and remove the change lock lever.
  (5) Remove the E ring and washer attaching the change gear 2.
  (6) The change gear 2, change gear spring and adjusting washer come off.
  (7) Remove the loading gear 1.
  (8) Move the change plate rivet assembly in the direction of the arrow to release from the three shafts of the chassis rivet assembly upward. (See Fig.38.)
  (9) Detach the loading gear plate rivet assembly from the shaft of the chassis rivet assembly upward while releasing the joint **p'**. (See Figs.38 and 40.)
  (10) Pull out the loading gear 4.

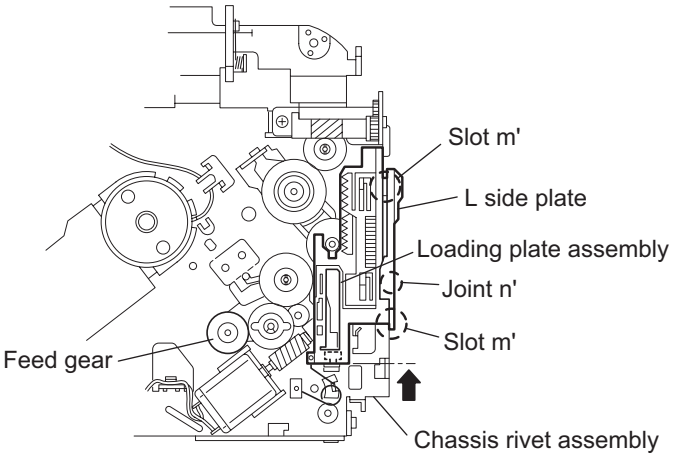


Fig.37

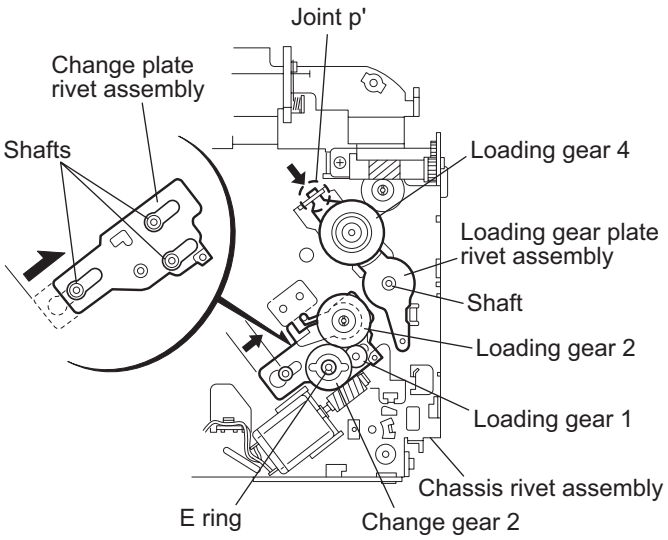


Fig.38

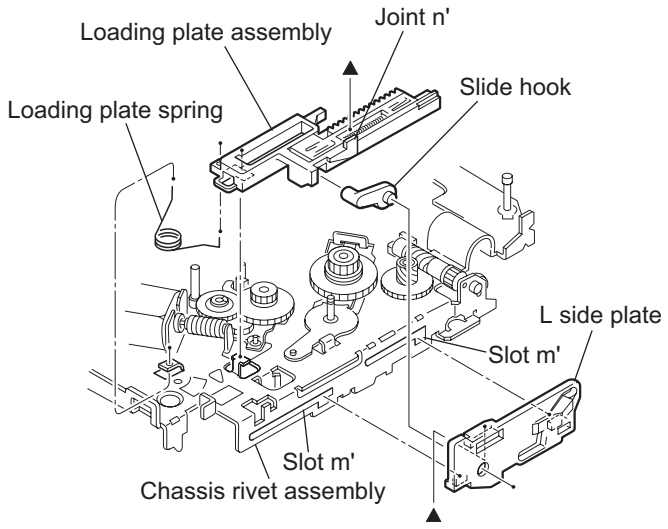


Fig.39

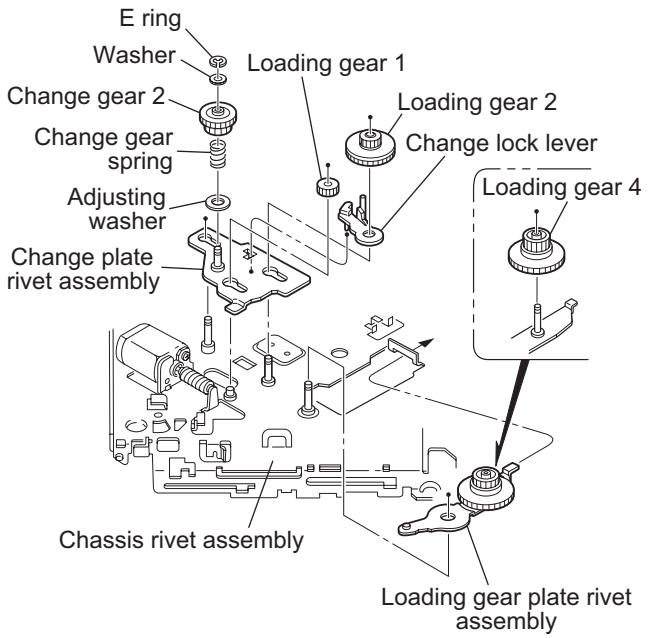


Fig.40

### 3.2.18 Removing the turn table / spindle motor (See Figs.41 and 42)

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit and clamper assembly.
  (1) Remove the two screws **L** attaching the spindle motor assembly through the slot of the turn table on top of the body.
  (2) Unsolder the wire on the connector board if necessary.

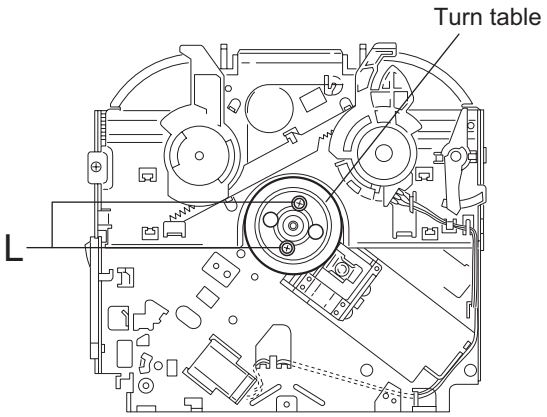


Fig.41

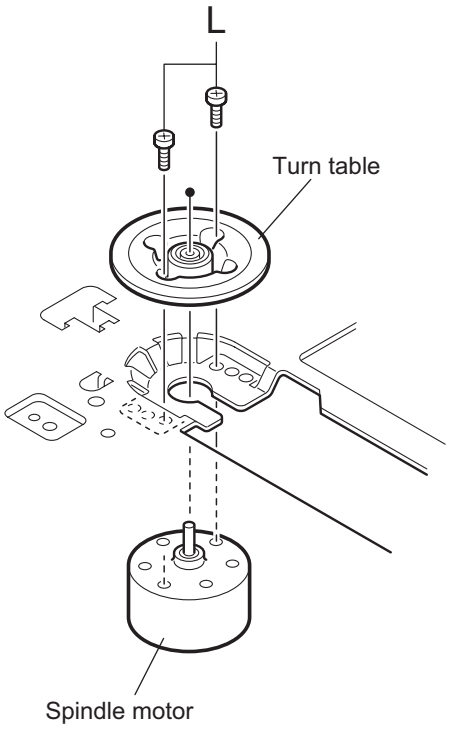


Fig.42

# SECTION 4
# ADJUSTMENT

### 4.1 Adjustment method

■ **Test instruments required for adjustment**

(1) Digital oscilloscope (100MHz)
(2) AM Standard signal generator
(3) FM Standard signal generator
(4) Stereo modulator
(5) Electric voltmeter
(6) Digital tester
(7) Tracking offset meter
(8) Test Disc JVC :CTS-1000
(9) Extension cable for check
EXTSH002-22P × 1

■ **Standard volume position**

Balance and Bass &Treble volume : Indication"0"
Loudness : OFF

■ **How to connect the extension cable for adjusting**

**Caution:**

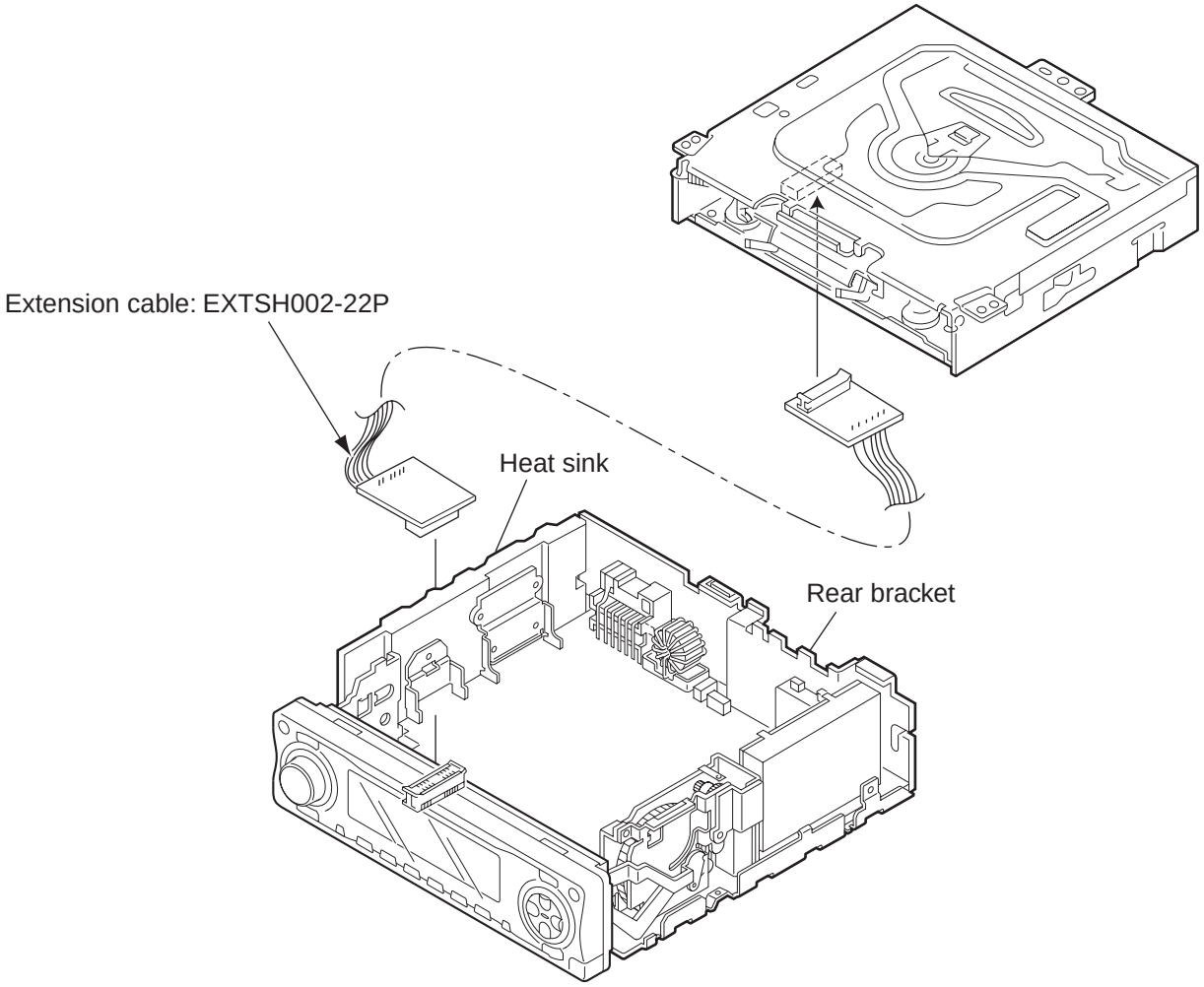
Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

■ **Standard measuring conditions**

| | |
|---|---|
| Power supply voltage | DC14.4V(10.5 to 16V) |
| Load impedance | 20KΩ(2 Speakers connection) |
| Output Level | Line out 2.0V (Vol. MAX) |

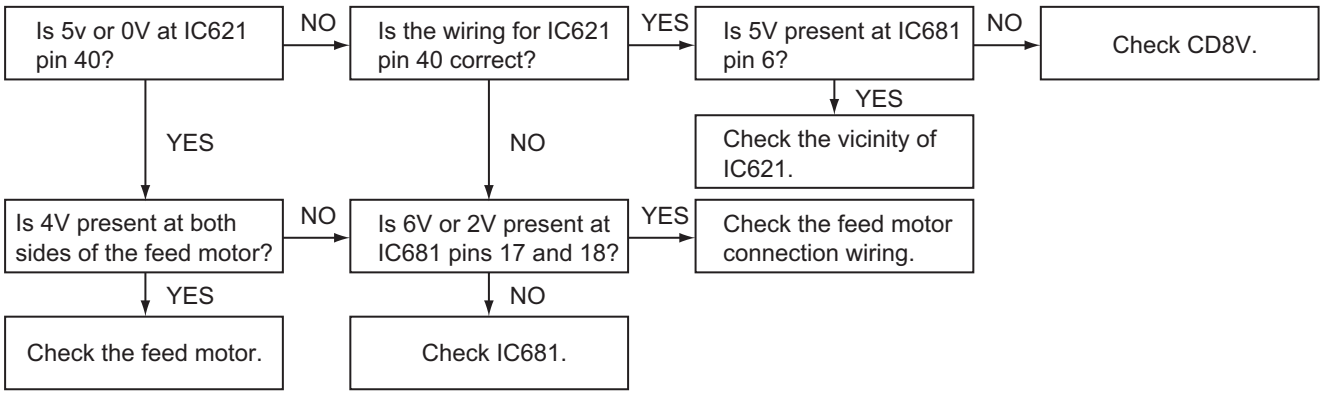
■ **Dummy load**

Exclusive dummy load should be used for AM,and FM. For FM dummy load,there is a loss of 6dB between SSG output and antenna input.The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

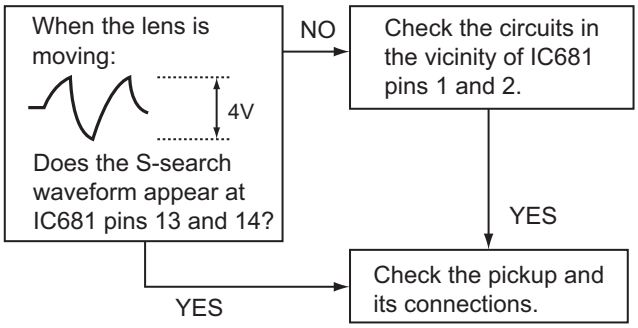


# SECTION 5
# TROUBLE SHOOTING

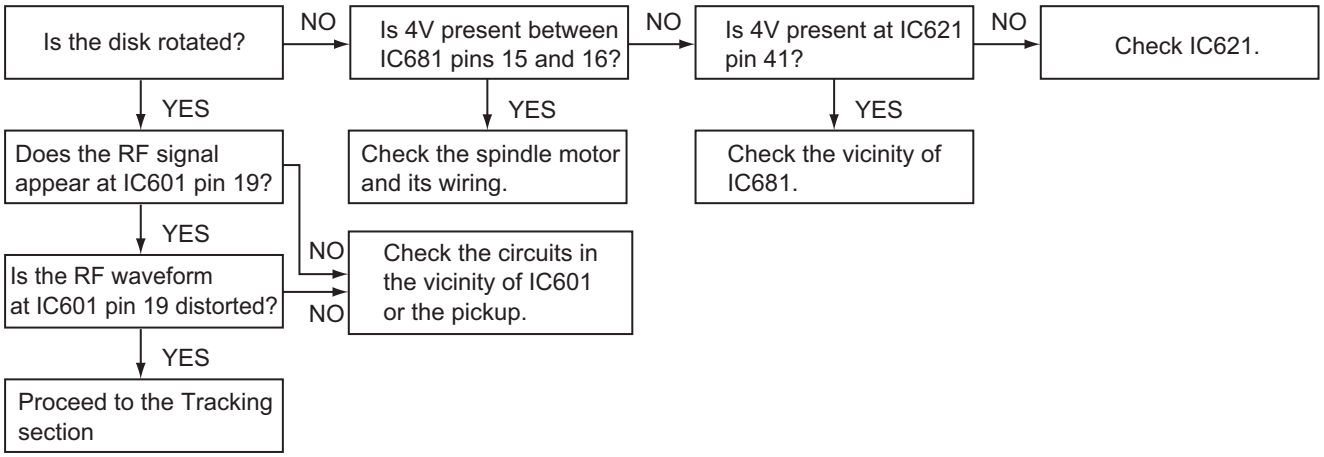
## 5.1 Feed section



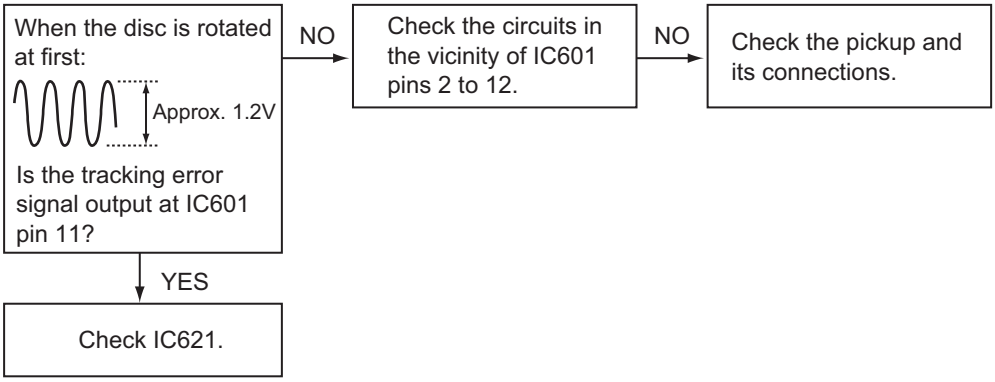

## 5.2 Focus section


When the lens is moving:
4V
Does the S-search waveform appear at IC681 pins 13 and 14?
NO
Check the circuits in the vicinity of IC681 pins 1 and 2.
YES
Check the pickup and its connections.
YES

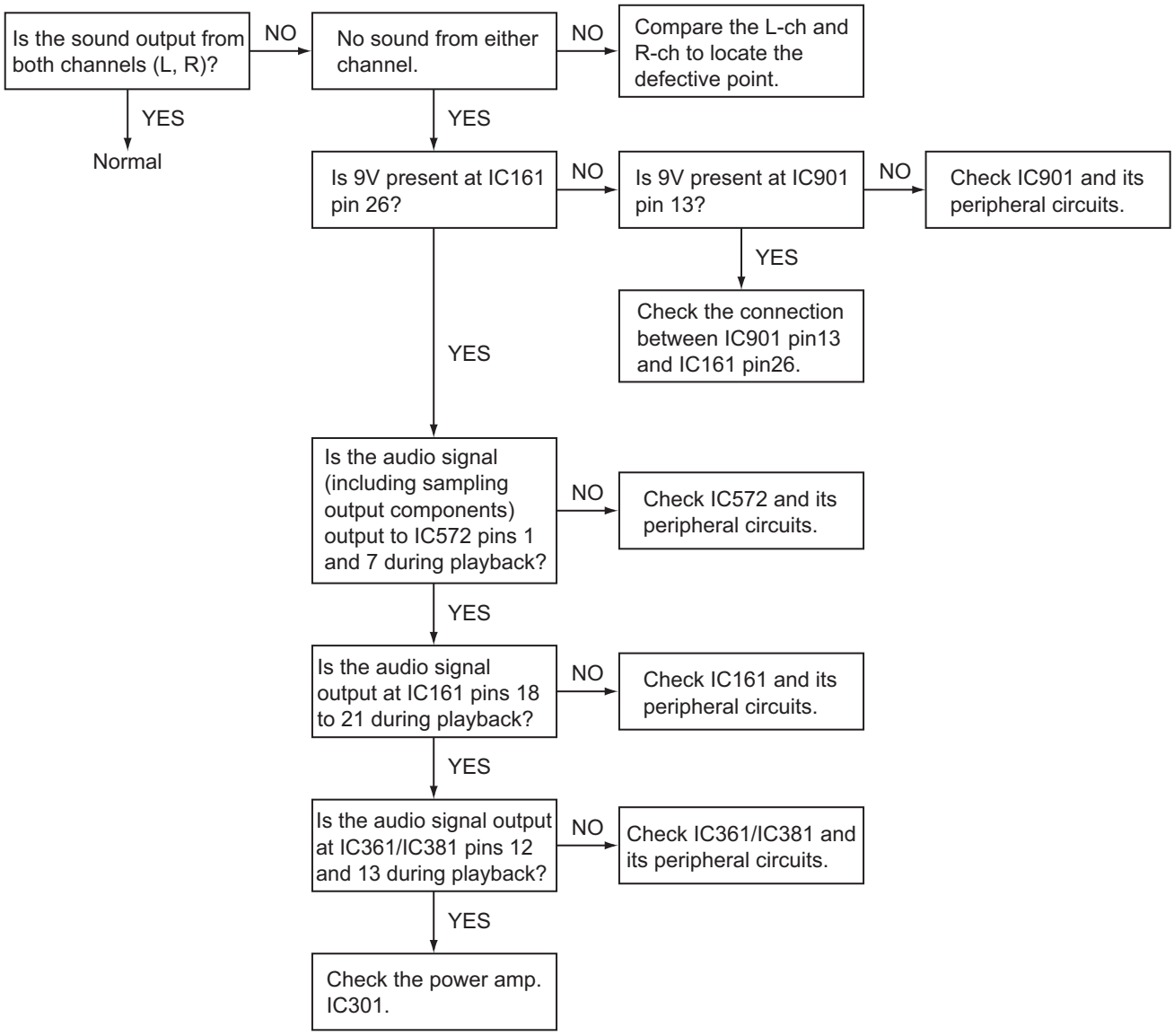
## 5.3 Spindle section




## 5.4 Tracking section


When the disc is rotated at first:
Approx. 1.2V
Is the tracking error signal output at IC601 pin 11?
NO
Check the circuits in the vicinity of IC601 pins 2 to 12.
NO
Check the pickup and its connections.
YES
Check IC621.

### 5.5 Signal processing section

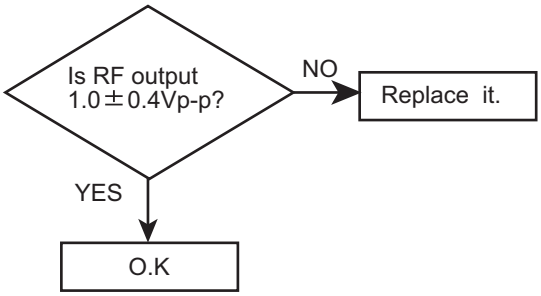

Is the sound output from both channels (L, R)?
NO
No sound from either channel.
NO
Compare the L-ch and R-ch to locate the defective point.
YES
Normal
YES
Is 9V present at IC161 pin 26?
NO
Is 9V present at IC901 pin 13?
NO
Check IC901 and its peripheral circuits.
YES
Check the connection between IC901 pin13 and IC161 pin26.
YES
Is the audio signal (including sampling output components) output to IC572 pins 1 and 7 during playback?
NO
Check IC572 and its peripheral circuits.
YES
Is the audio signal output at IC161 pins 18 to 21 during playback?
NO
Check IC161 and its peripheral circuits.
YES
Is the audio signal output at IC361/IC381 pins 12 and 13 during playback?
NO
Check IC361/IC381 and its peripheral circuits.
YES
Check the power amp. IC301.

### 5.6 Maintenance of laser pickup

(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

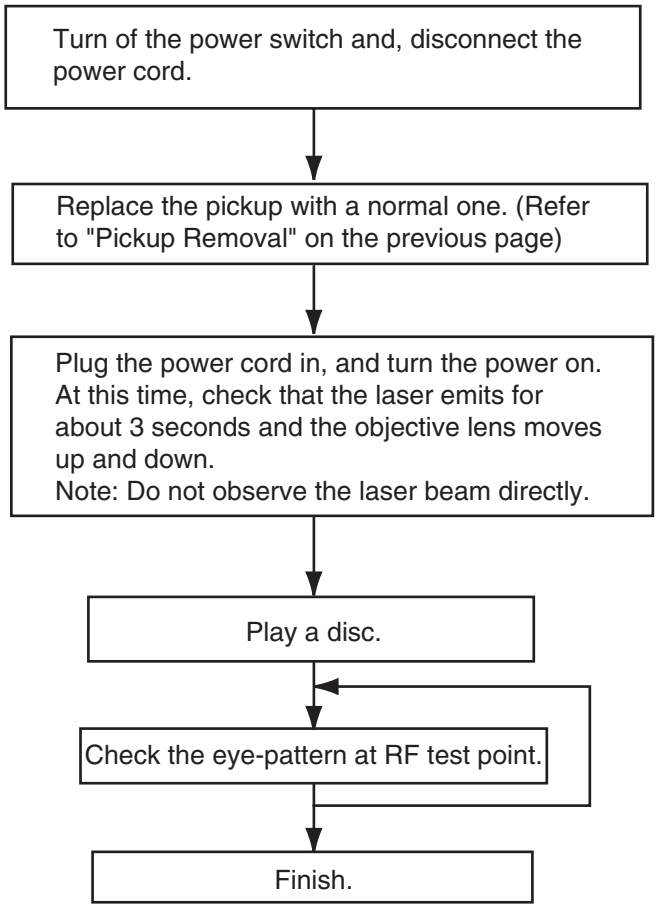
(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

- The level of RF output (EFM output: amplitude of eye pattern) will be low.

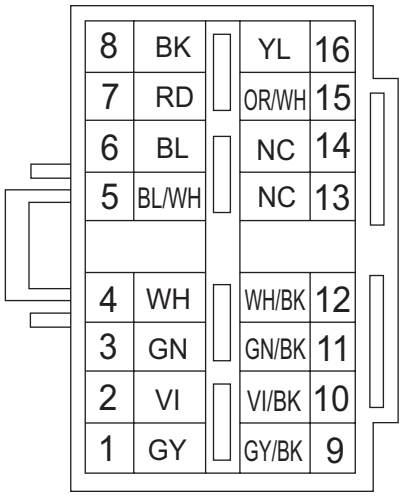



(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced. If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

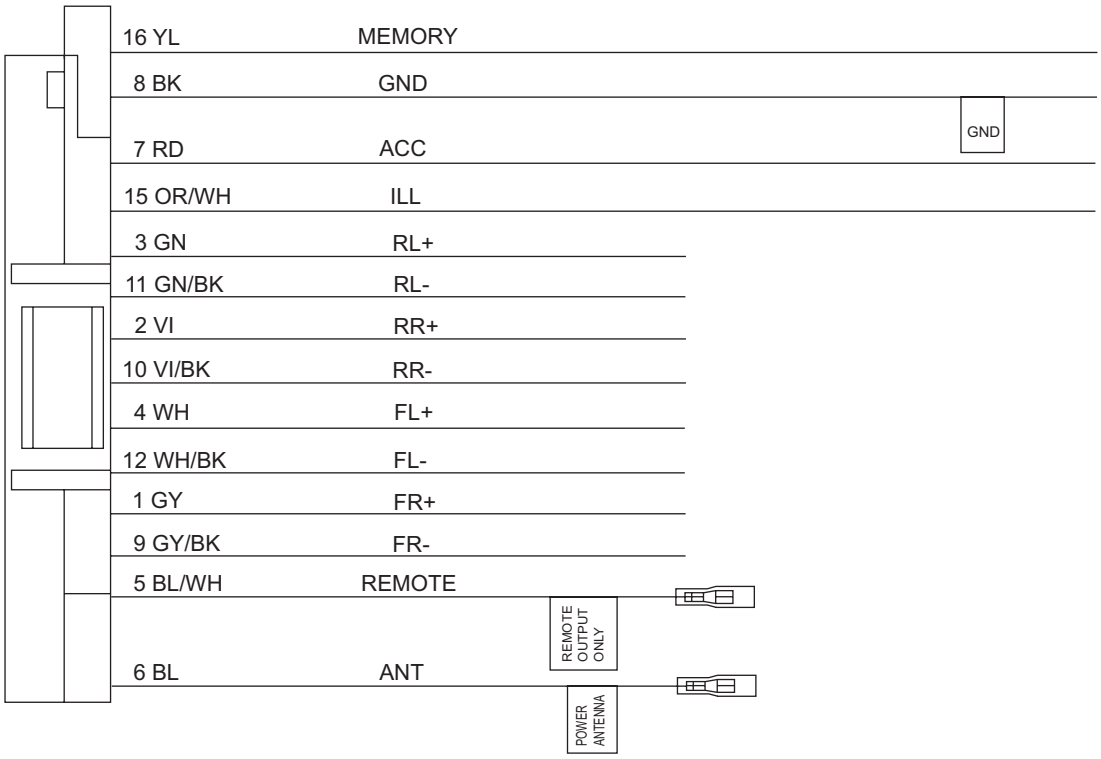
### 5.7 Replacement of laser pickup


Turn of the power switch and, disconnect the power cord.
Replace the pickup with a normal one. (Refer to "Pickup Removal" on the previous page)
Plug the power cord in, and turn the power on. At this time, check that the laser emits for about 3 seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at RF test point.
Finish.

### 5.8 16 PIN CORD DIAGRAM for KD-AR3000

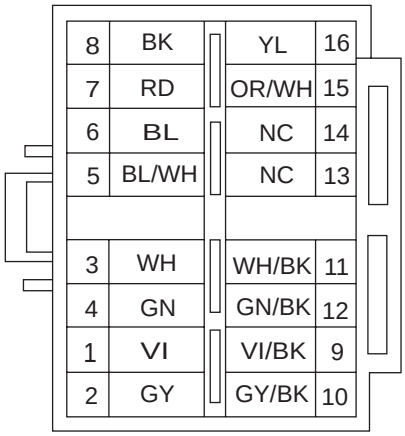



| | | | |
|---|---|---|---|
| BK | Black | GN | Green |
| RD | Red | VI | Violet |
| BL | Blue | GY | Gray |
| WH | White | YL | Yellow |
| | | OR | Orange |

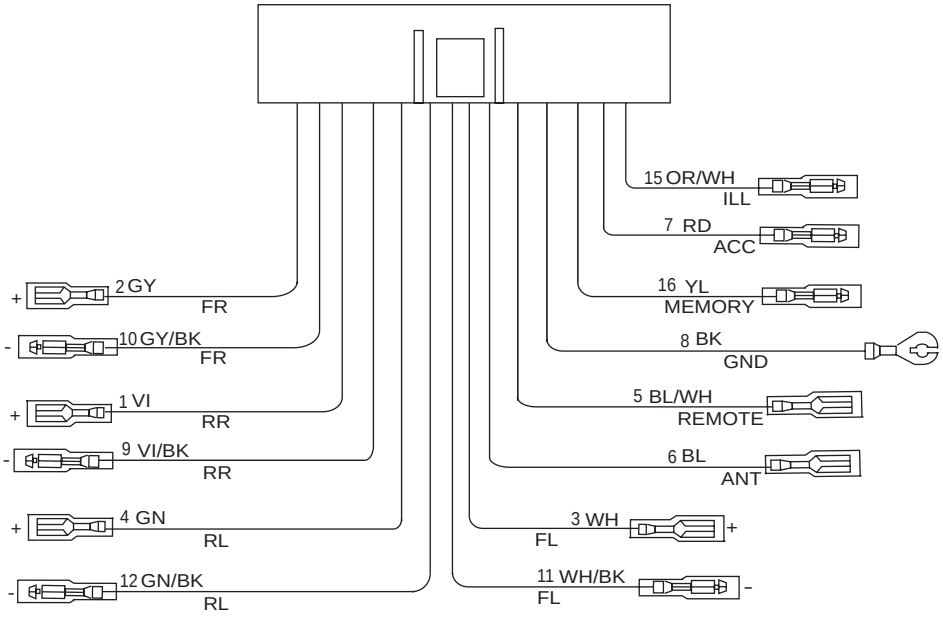



| | | | |
|---|---|---|---|
| RR | Rear Right | ANT | Auto Antenna |
| FR | Front Right | ACC | ACC Line |
| FL | Front Left | ILL | Illuminations Control |
| RL | Rear Left | GND | Ground |
| REMOTE | Remote | MEMORY | Memory Backup Battery+ |

### 5.9 16 PIN CORD DIAGRAM for KD-LH300




| | | | |
|---|---|---|---|
| BK | Black | GN | Green |
| RD | Red | VI | Violet |
| BL | Blue | GY | Gray |
| WH | White | YL | Yellow |
| | | OR | Orange |




| | | | |
|---|---|---|---|
| RR | Rear Right | ANT | Auto Antenna |
| FR | Front Right | ACC | ACC Line |
| FL | Front Left | ILL | Illuminations Control |
| RL | Rear Left | GND | Ground |
| REMOTE | Remote | MEMORY | Memory Backup Battery+ |

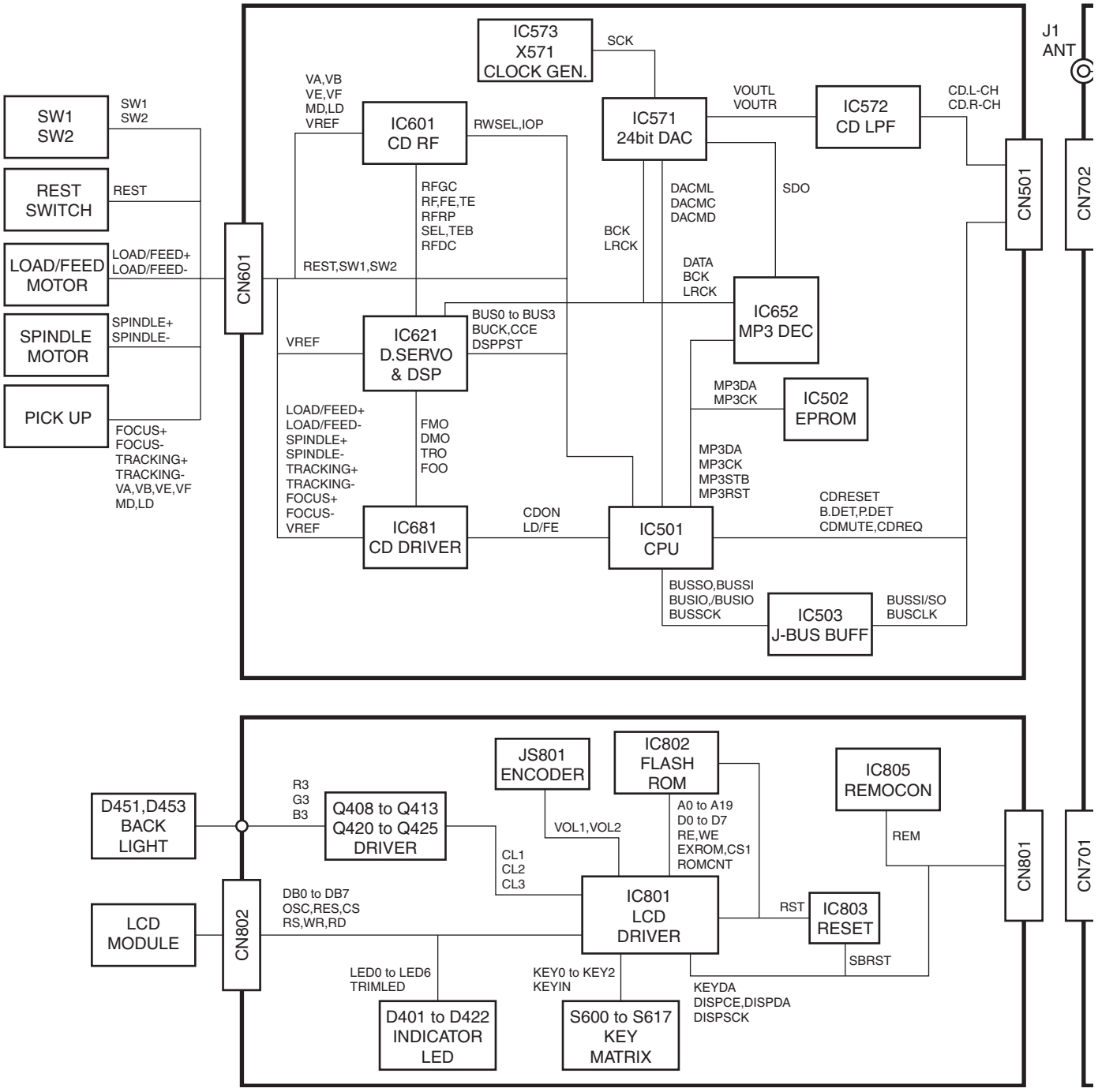
# Safety precaution

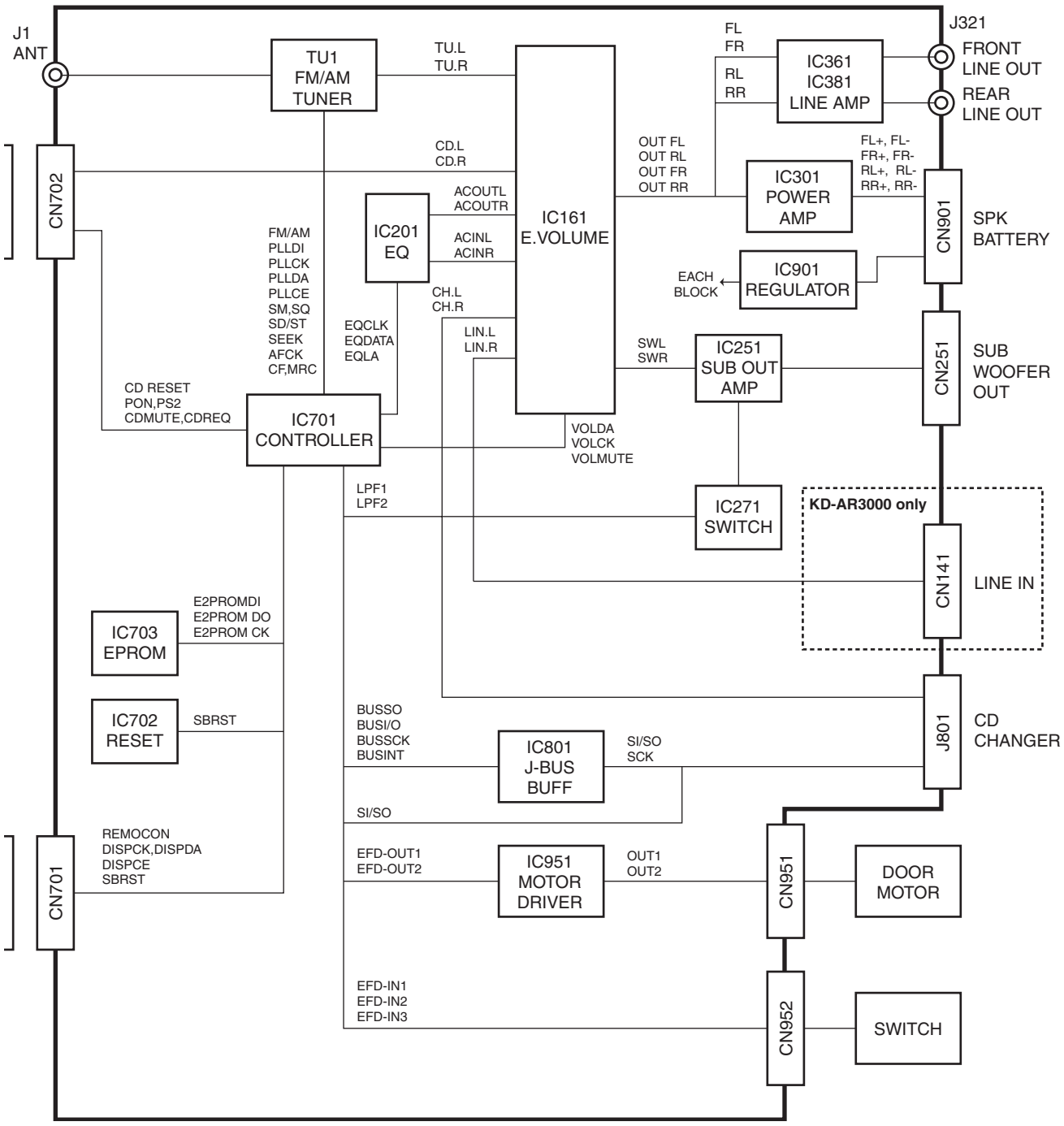
⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

< MEMO >

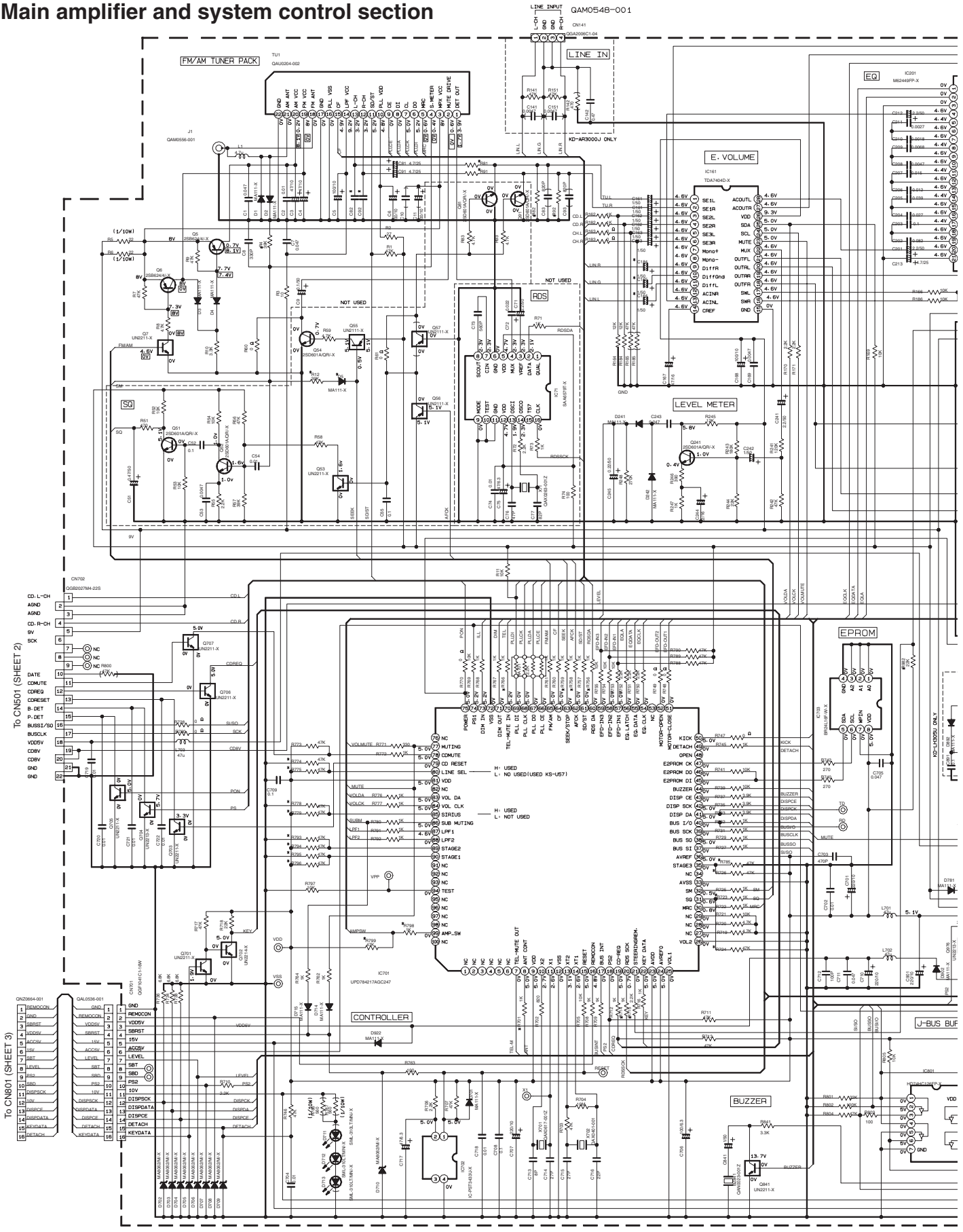
# Block diagram

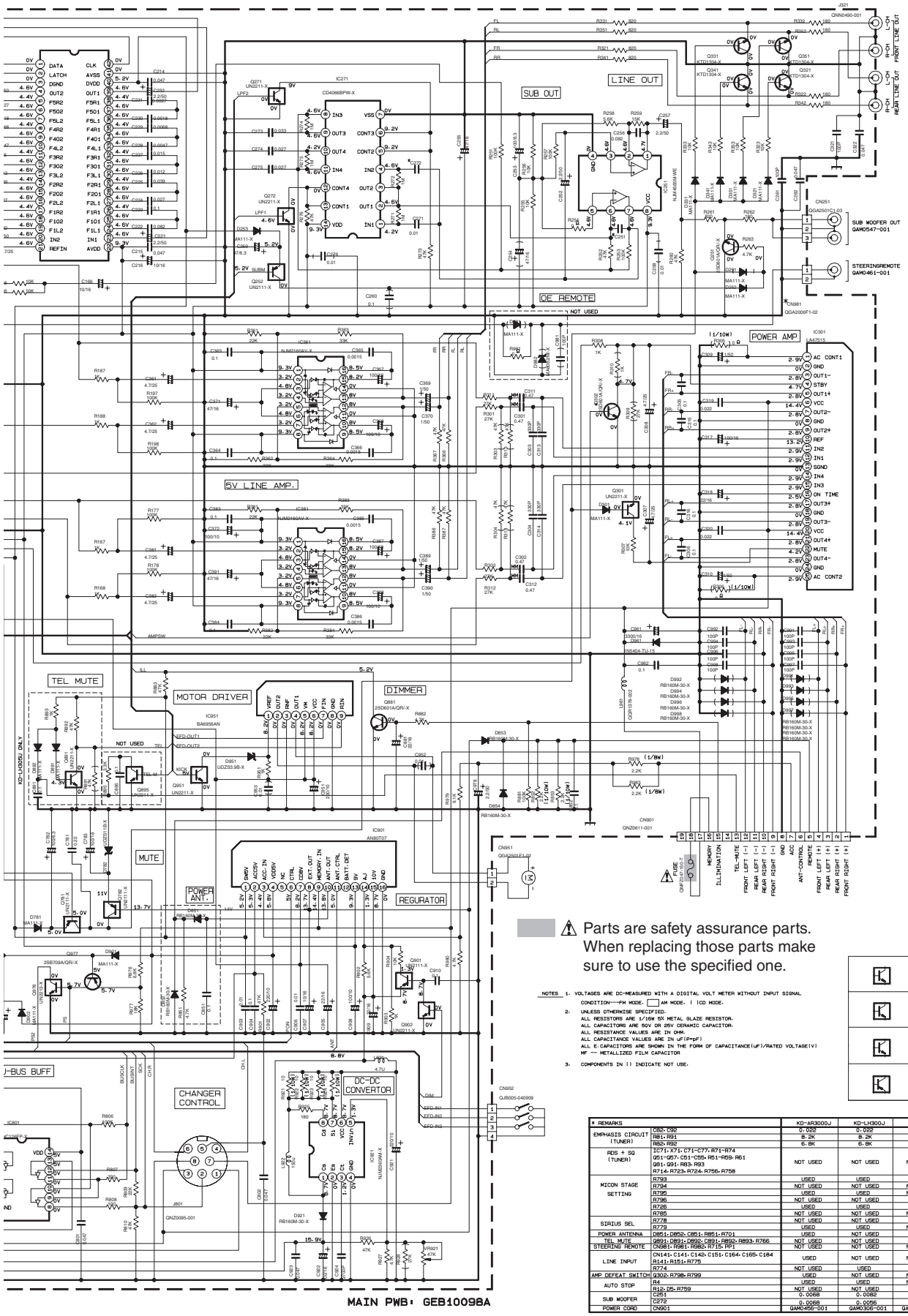



J1
ANT
TU1
FM/AM
TUNER
TU.L
TU.R
IC161
E.VOLUME
FL
FR
RL
RR
IC361
IC381
LINE AMP
J321
FRONT
LINE OUT
REAR
LINE OUT
CN702
CD.L
CD.R
OUT FL
OUT RL
OUT FR
OUT RR
IC301
POWER
AMP
FL+, FL-
FR+, FR-
RL+, RL-
RR+, RR-
CN901
SPK
BATTERY
ACOUTL
ACOUTR
IC201
EQ
ACINL
ACINR
FM/AM
PLLDI
PLLCK
PLLDA
PLLCE
SM,SQ
SD/ST
SEEK
AFCK
CF,MRC
EACH
BLOCK
IC901
REGULATOR
CH.L
CH.R
EQCLK
EQDATA
EQLA
LIN.L
LIN.R
SWL
SWR
IC251
SUB OUT
AMP
CN251
SUB
WOOFER
OUT
CD RESET
PON,PS2
CDMUTE,CDREQ
IC701
CONTROLLER
VOLDA
VOLCK
VOLMUTE
LPF1
LPF2
IC271
SWITCH
KD-AR3000 only
CN141
LINE IN
E2PROMDI
E2PROM DO
E2PROM CK
IC703
EPROM
IC702
RESET
SBRST
BUSSO
BUSI/O
BUSSCK
BUSINT
IC801
J-BUS
BUFF
SI/SO
SCK
J801
CD
CHANGER
SI/SO
CN701
REMOCON
DISPCK,DISPDA
DISPCE
SBRST
EFD-OUT1
EFD-OUT2
IC951
MOTOR
DRIVER
OUT1
OUT2
CN951
DOOR
MOTOR
EFD-IN1
EFD-IN2
EFD-IN3
CN952
SWITCH

# Standard schematic diagrams

## ■ Main amplifier and system control section






Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

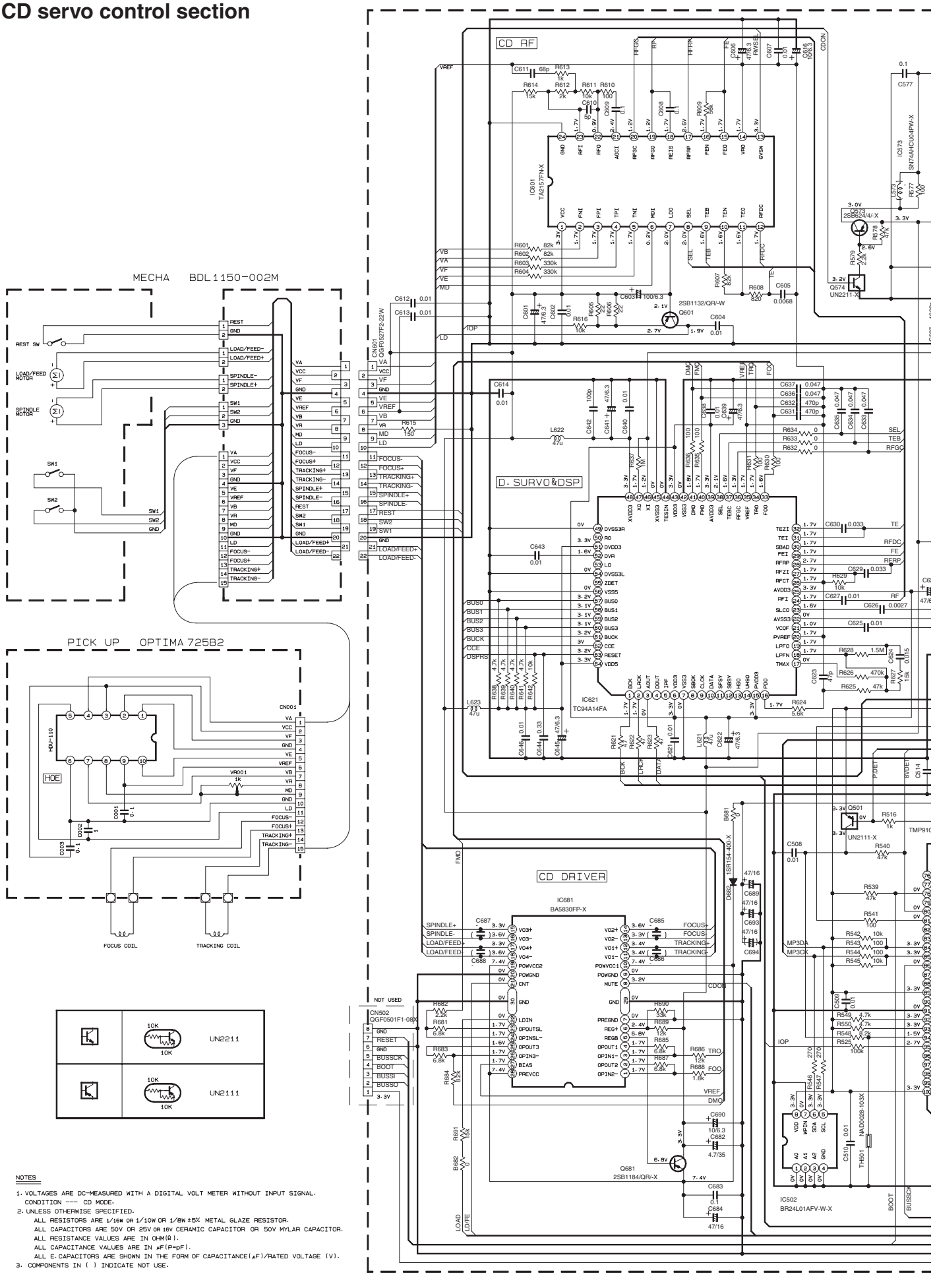
NOTES 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
CONDITION----FM MODE. ☐ AM MODE. | ICD MODE.
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W 5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF(P=pF)
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
MF --- METALLIZED FILM CAPACITOR
3. COMPONENTS IN ( ) INDICATE NOT USE.

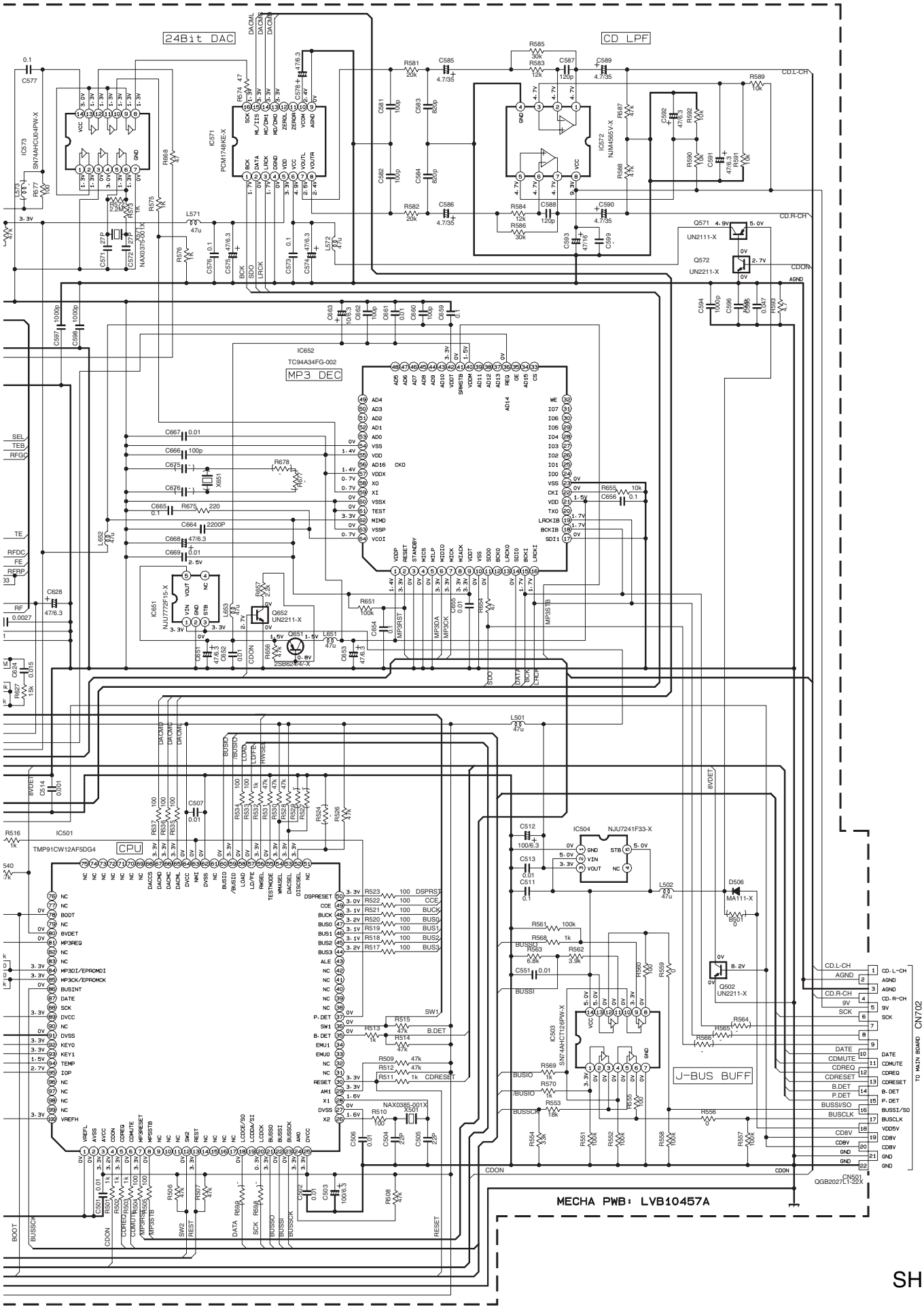
| | | |
|---|---|---|
| 10k / 47k | | UN2214 |
| 10k / 10k | | UN2211 |
| 47k / 47k | | UN2213 |
| 10k / 10k | | UN2111 |

| * REMARKS | | KD-AR3000J | KD-LH300J | KD-LH305U |
|---|---|---|---|---|
| EMPHASIS CIRCUIT (TUNER) | C82-C92 | 0.022 | 0.022 | 0.012 |
| | R81-R91 | 8.2K | 8.2K | 9.1k |
| | R82-R92 | 6.8K | 6.8K | 27K |
| RDS + SQ (TUNER) | IC71-X71-C71-C77-R71-R74 Q51-Q57-C51-C55-R51-R59-R61 Q91-Q91-R53-R93 R714-R723-R724-R756-R758 | NOT USED | NOT USED | NOT USED |
| MICON STAGE SETTING | R793 | USED | USED | USED |
| | R794 | NOT USED | NOT USED | NOT USED |
| | R795 | USED | USED | NOT USED |
| | R796 | NOT USED | NOT USED | USED |
| | R726 | USED | USED | USED |
| | R785 | NOT USED | NOT USED | NOT USED |
| SIRIUS SEL | R778 | NOT USED | NOT USED | USED |
| | R779 | USED | USED | NOT USED |
| POWER ANTENNA | D851-D852-C851-R851-R701 | NOT USED | NOT USED | USED |
| TEL MUTE | Q891-D891-D892-C891-R892-R893-R766 | NOT USED | NOT USED | USED |
| STEERING REMOTE | CN981-R981-R982-R715-PR1 | NOT USED | NOT USED | NOT USED |
| LINE INPUT | CN141-C141-C142-C151-C164-C165-C184 R141-R151-R775 | USED | NOT USED | NOT USED |
| | R774 | NOT USED | USED | USED |
| AMP DEFEAT SWITCH | Q302-R798-R799 | USED | NOT USED | NOT USED |
| AUTO STOP | R4 | USED | USED | NOT USED |
| | R12-D5-R759 | NOT USED | NOT USED | USED |
| SUB WOOFER | C251 | 0.0068 | 0.0082 | 0.0082 |
| POWER CORD | CN901 | 0.0068 GAM0456-001 | 0.0056 GAM0306-001 | 0.0056 GAM0308-002 |

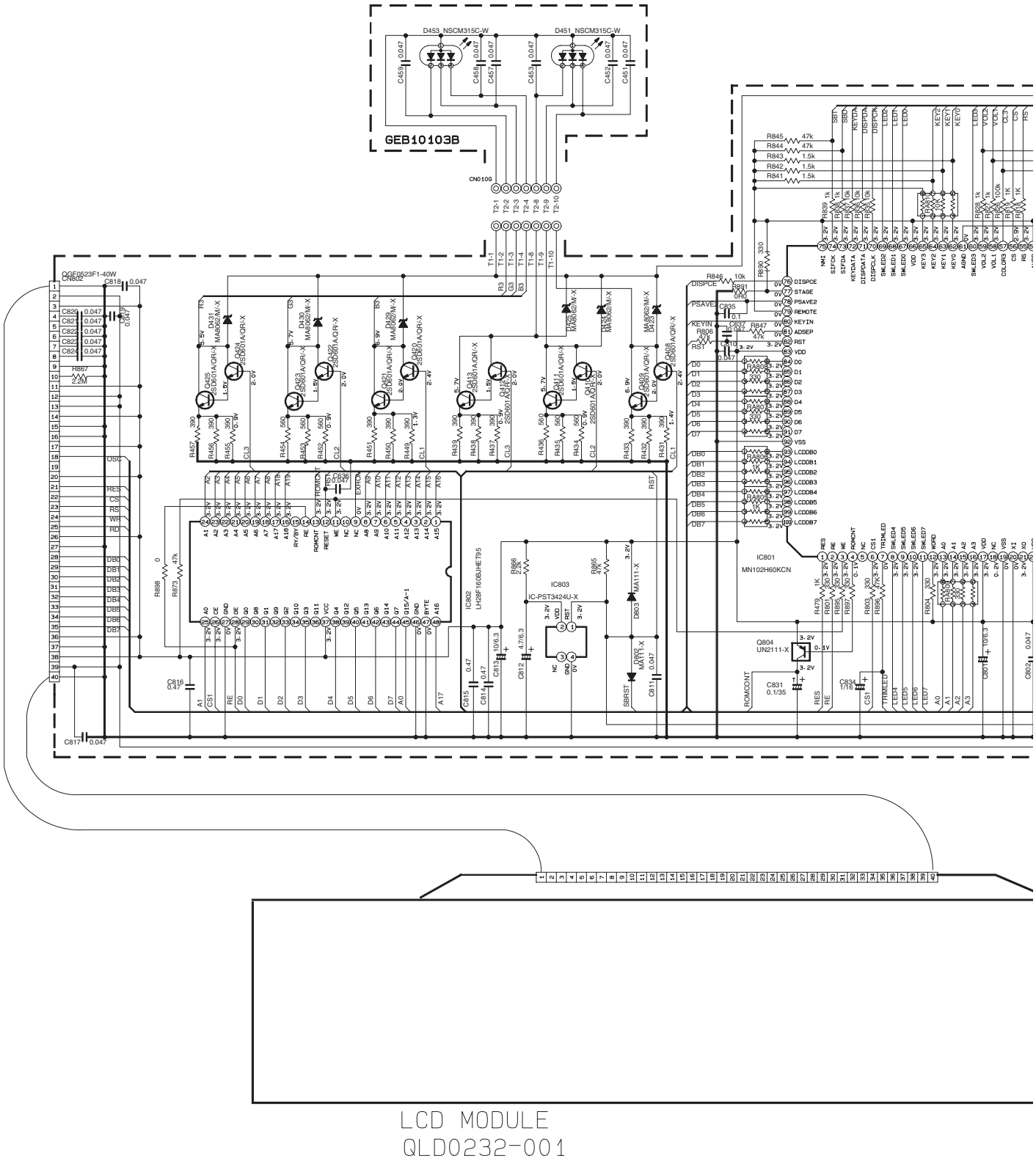
SHEET 1

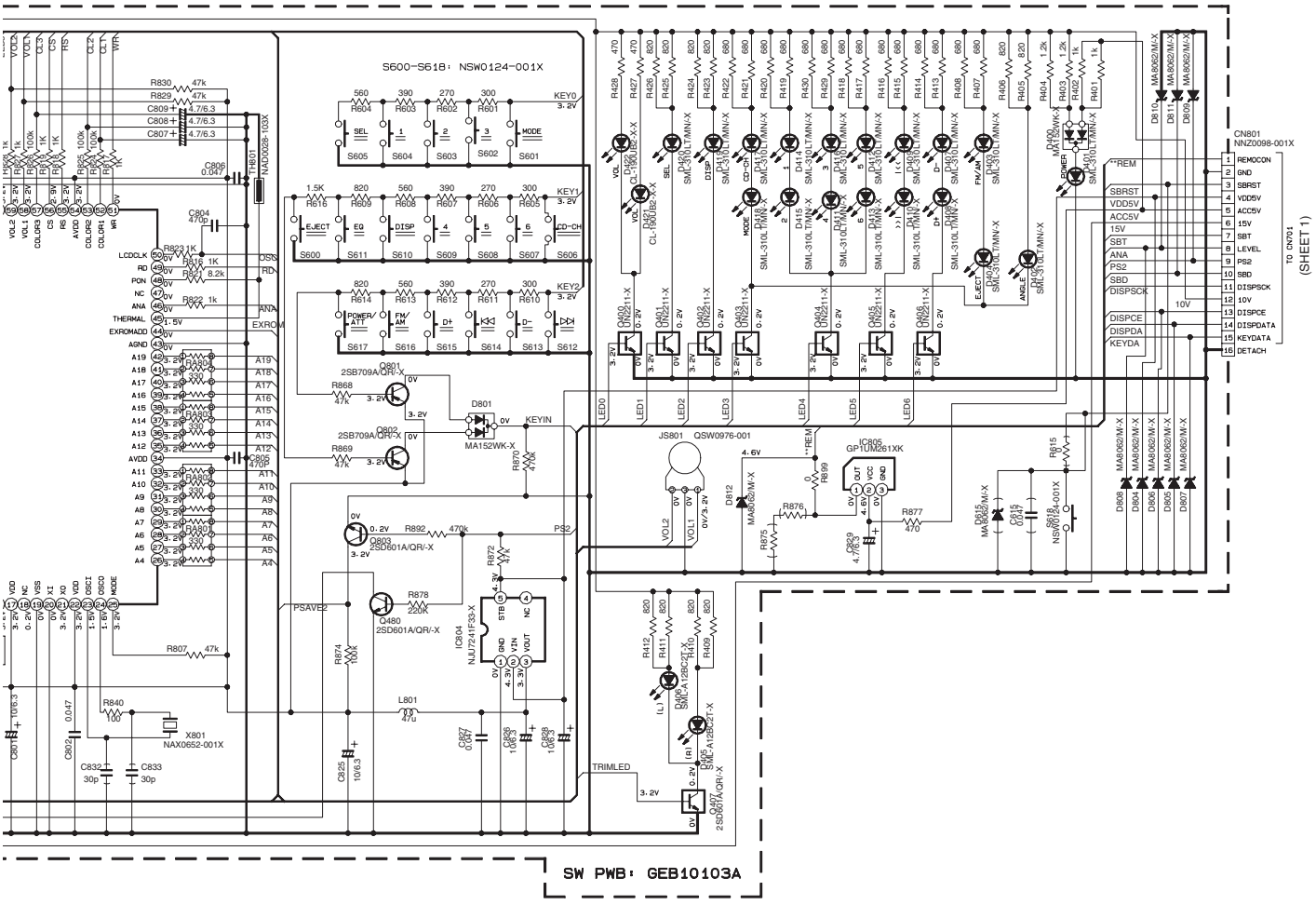
## ■ CD servo control section




24Bit DAC
CD LPF
MP3 DEC
CPU
J-BUS BUFF
MECHA PWB: LVB10457A
TO MAIN BOARD CN702 (SHEET 1)
CN501 QGB2027L1-22X
IC573 SN74AHCU04PW-X
IC571 PCM1748KE-X
IC572 NJM4565V-X
IC652 TC94A34FG-002
IC651 NJU7772F15-X
IC501 TMP91CW12AF5DG4
IC504 NJU7241F33-X
IC503 SN74AHCT126PW-X
X501 NAX0385-001X
X651 NAX0375-001X
Q571 UN2111-X
Q572 UN2211-X
Q652 UN2211-X
Q651 2SB624-X
Q502 UN2211-X
D506 MA111-X
CD.L-CH
CD.R-CH
CDON
AGND
SEL
TEB
RFGC
RFDC
FE
RERB
RF
TE
BUSSCK
BOOT
RESET
SHEET 2

## ■ LCD and Key control section






| | | |
|---|---|---|
| | 10k 10k | UN2211 |
| | 47k 47k | UN2213 |
| | 10k 10k | UN2111 |

NOTES

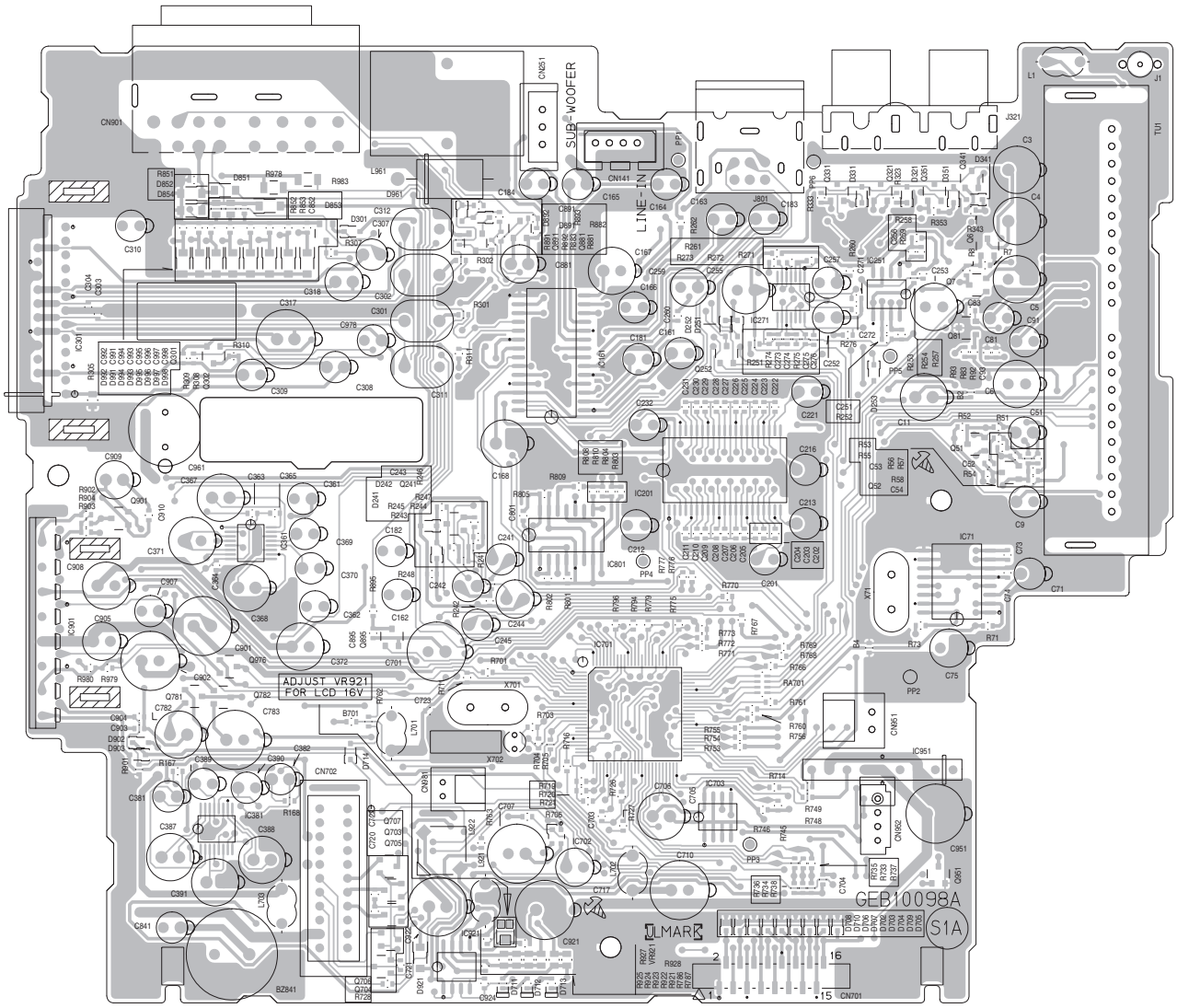
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION ---- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

SHEET 3

# Printed circuit boards

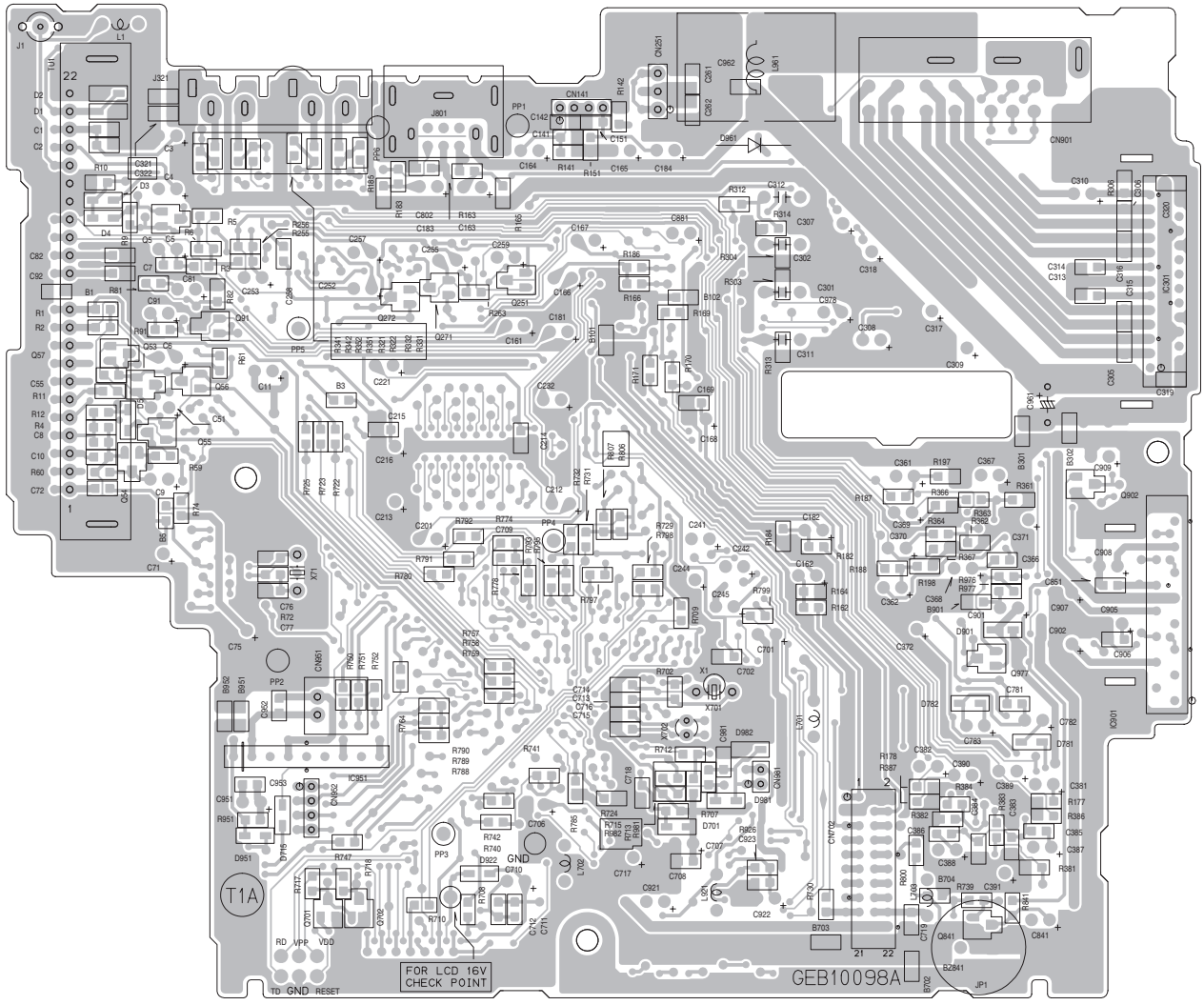
## ■ Main board

Forward side



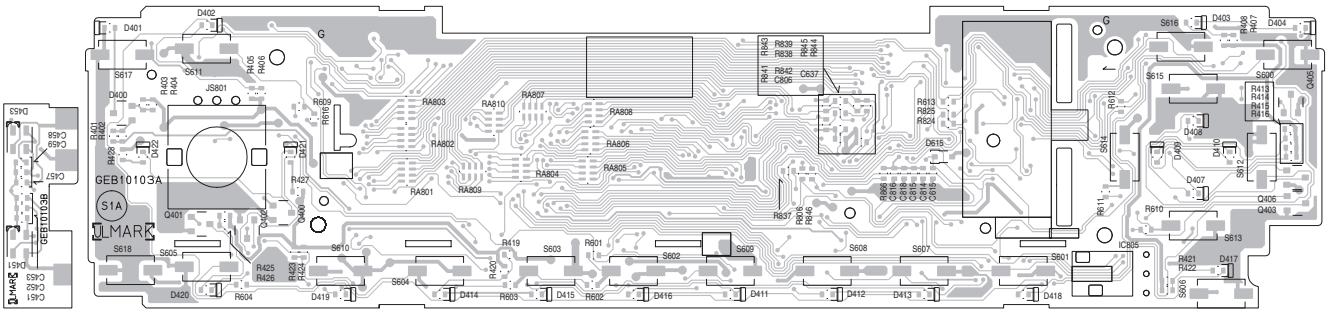
## ■ Main board

Reverse side



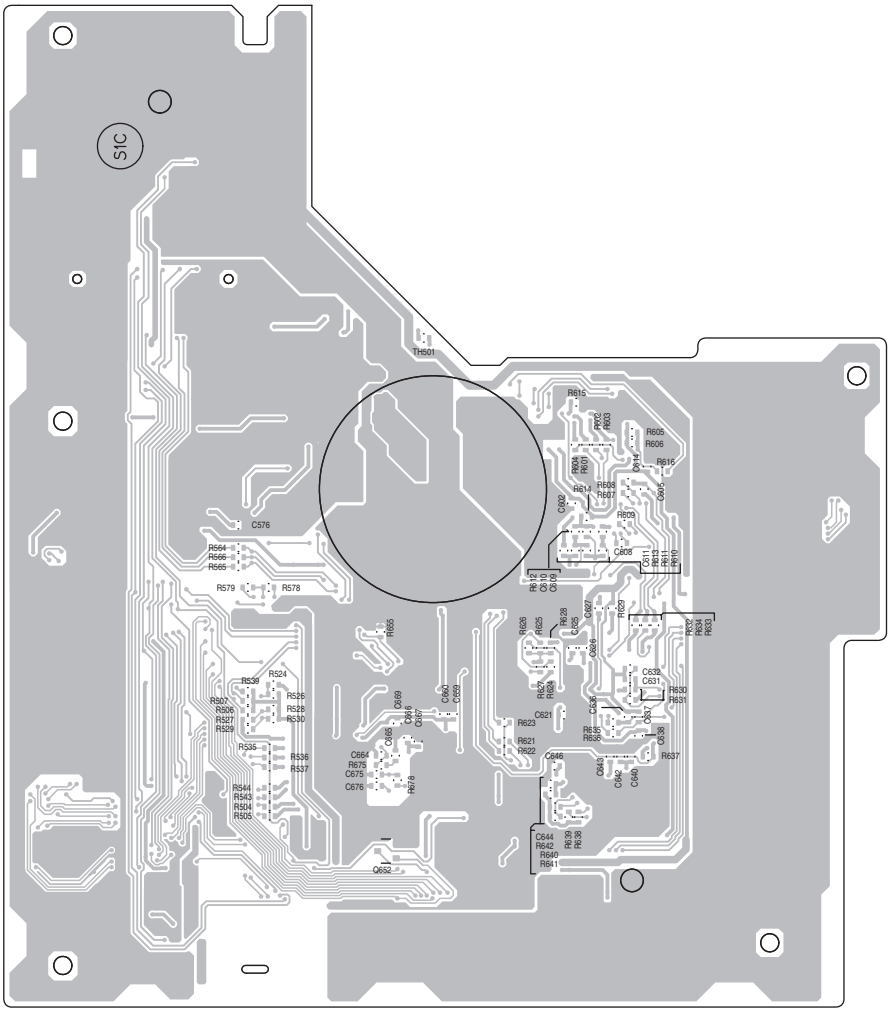
## ■ Front board

Forward side



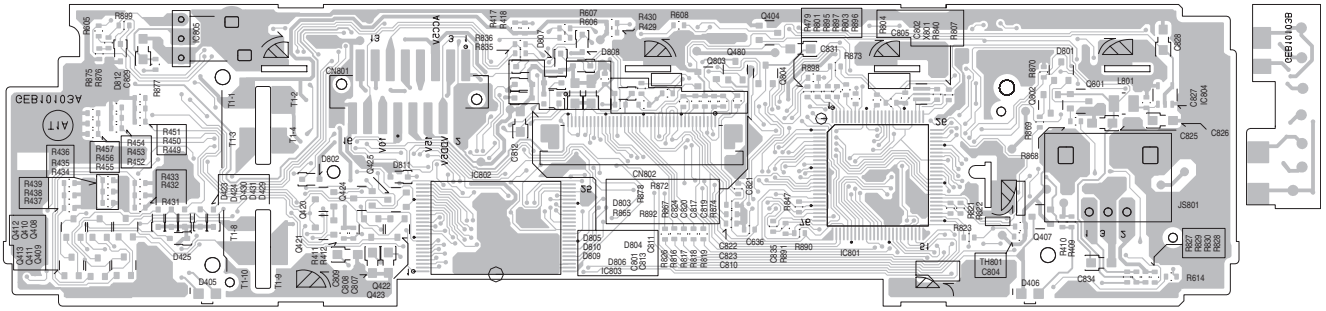

## ■ Mecha control board

Forward side



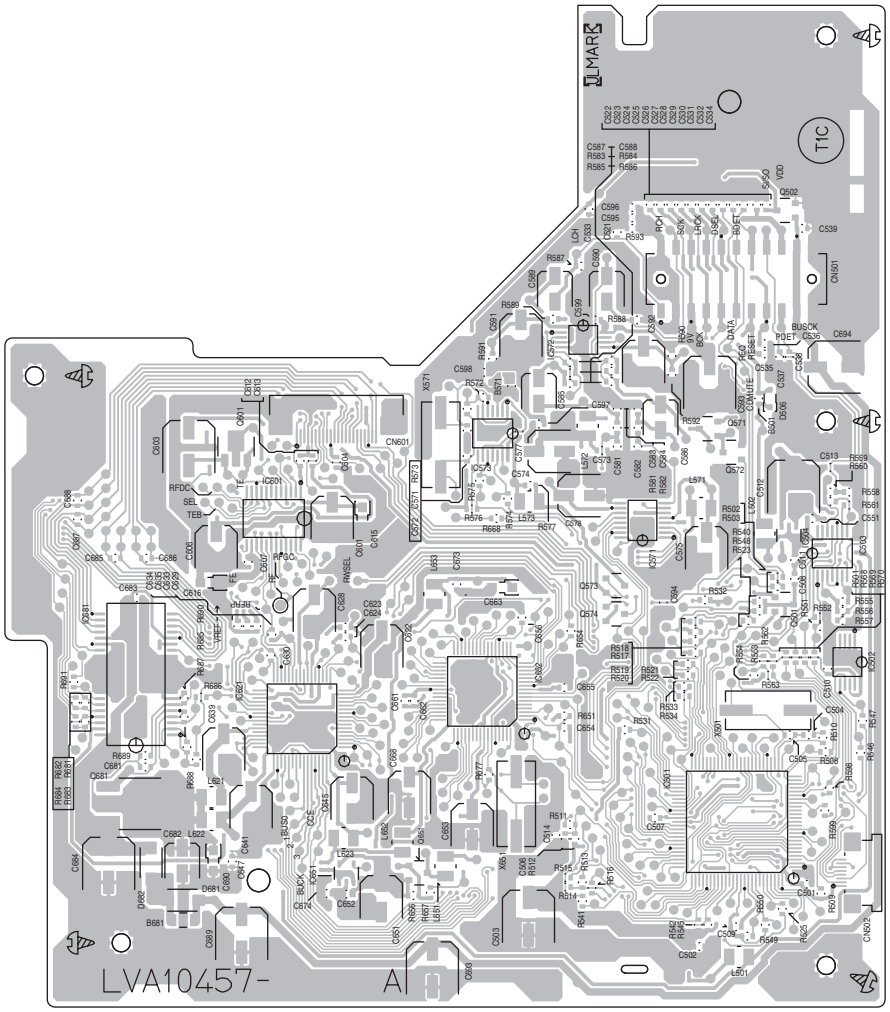
## ■ Front board

Reverse side



## ■ Mecha control board

Reverse side



# PARTS LIST

## [ KD-AR3000 ]
## [ KD-LH300 ]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix

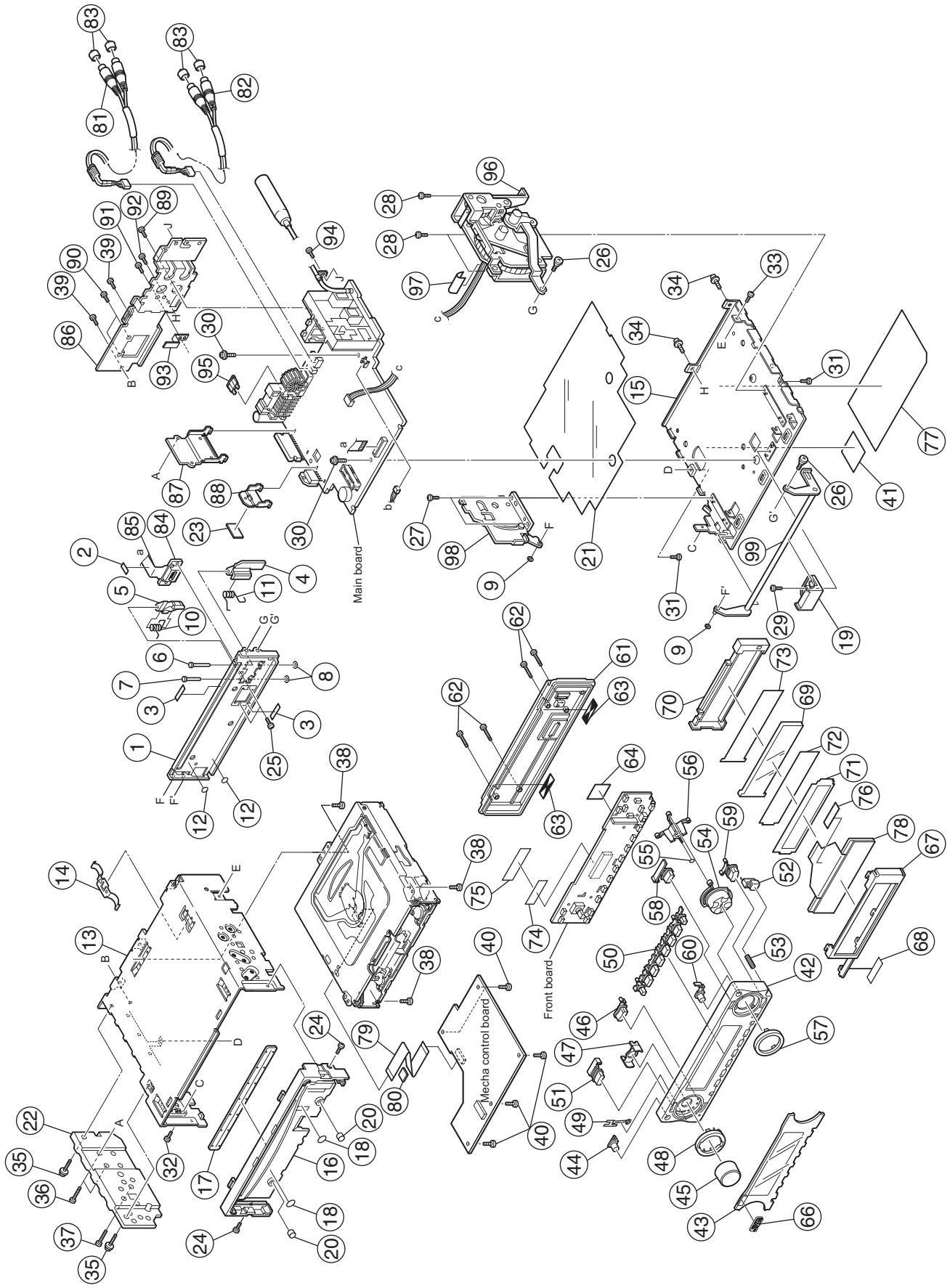
J ---------- U.S.A.

- Contents -


Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
CD mechanism assembly and parts list (Block No.MB) ---------- 3- 4
Electrical parts list (Block No.01~ 03) ---------- 3- 6
Packing materials and accessories parts list (Block No.M3) ---------- 3-14

# Exploded view of general assmbly and parts list

Block No. M 1 M M



# General assembly

Block No. [M][1][M][M]

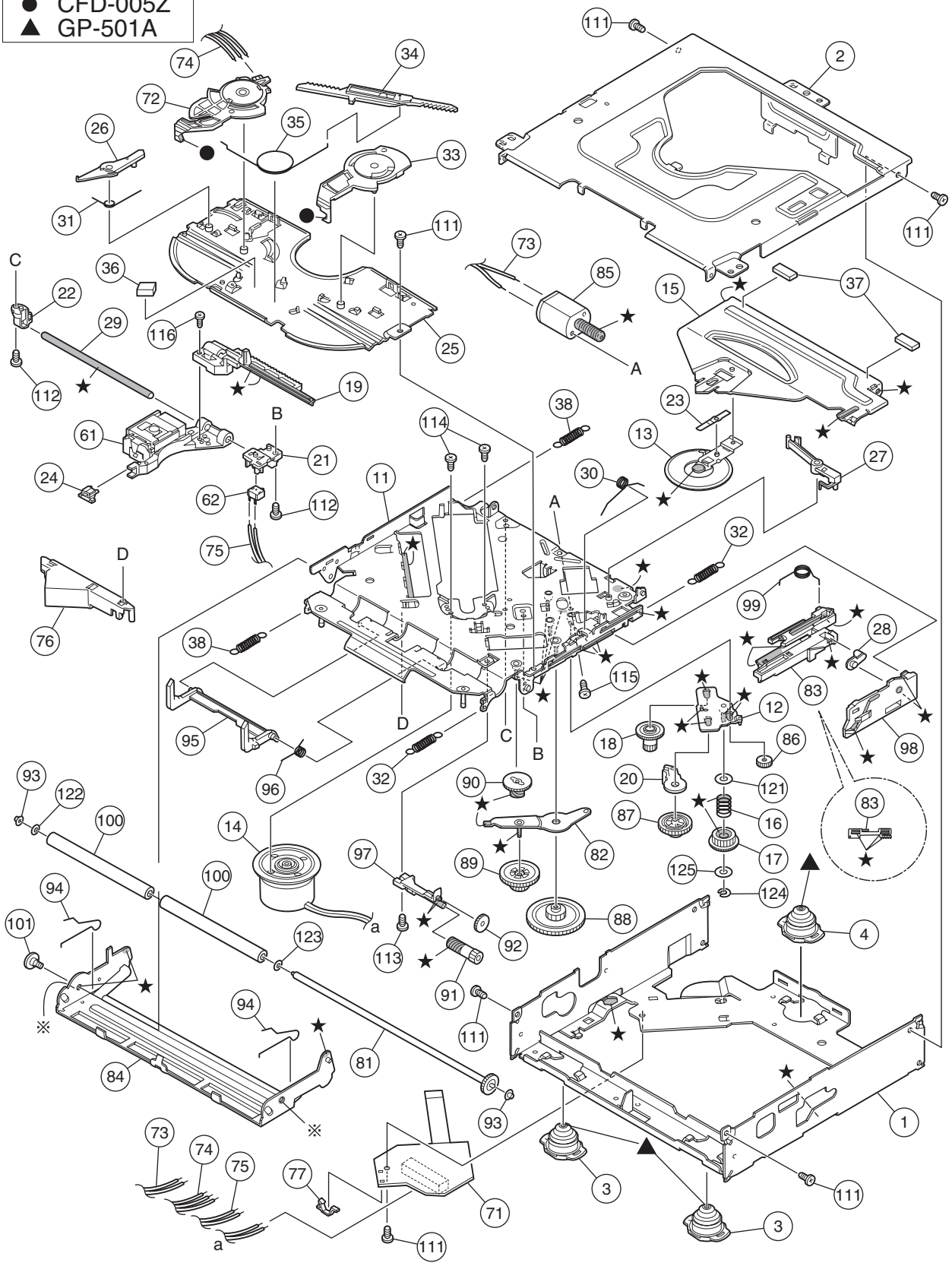
| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 1 | GE30975-001A | FRONT BKT ASSY | | |
| 2 | FSYH4036-100 | SHEET | | |
| 3 | GE40218-012A | SHEET | (x2) | |
| 4 | GE30972-001A | DETACH LEVER | | |
| 5 | GE30973-001A | KICK LEVER | | |
| 6 | GE40192-001A | SHAFT | | |
| 7 | GE40193-001A | SHAFT | | |
| 8 | WDL123525 | WASHER | (x2) | |
| 9 | WDL215025 | WASHER | (x2) | |
| 10 | GE40194-001A | T SPRING | | |
| 11 | GE40195-002A | T.SPRING | | |
| 12 | GE40218-009A | SHEET | (x2) | |
| 13 | GE10073-004A | TOP CHASSIS | | |
| 14 | GE40135-001A | EARTH PLATE | | |
| 15 | GE10074-001A | BOTTOM CHASSIS | | |
| 16 | GE10075-001A | FRONT CHASSIS | | |
| 17 | GE40156-001A | BLIND | | |
| 18 | GE40224-001A | MIRROR SHEET | (x2) | |
| 19 | GE30974-001A | FPC GUIDE | | |
| 20 | GE40196-001A | ABSORBER | (x2) | |
| 21 | GE31204-003A | INSULATOR | | |
| 22 | GE31206-002A | HEAT SINK | | |
| 23 | GE40107-002A | HEAT SINK | | |
| 24 | QYSPSP2003M | SCREW | 2mm x 3mm(x2) | |
| 25 | QYSPSTU2040M | TAP SCREW | M2 x 4mm(x2) | |
| 26 | LV42181-002A | SPECIAL SCREW | (x2) | |
| 27 | LV40865-001A | MINI SCREW | (x2) | |
| 28 | LV40865-001A | MINI SCREW | (x3) | |
| 29 | LV40865-001A | MINI SCREW | | |
| 30 | LV41200-001A | SPECIAL SCREW | (x2) | |
| 31 | QYSDST2606Z | SCREW | 2.6mm x 6mm(x2) | |
| 32 | QYSDST2604Z | SCREW | 2.6mm x 4mm | |
| 33 | QYSDST2604Z | SCREW | 2.6mm x 4mm | |
| 34 | LV41200-001A | SPECIAL SCREW | (x2) | |
| 35 | FSKZ4005-002 | SCREW | (x2) | |
| 36 | QYSDST2610Z | SCREW | 2.6mm x 10mm(x2) | |
| 37 | QYSDST2610Z | SCREW | 2.6mm x 10mm | |
| 38 | QYSDST2604Z | SCREW | 2.6mm x 4mm(x3) | |
| 39 | QYSDST2604Z | SCREW | 2.6mm x 4mm(x2) | |
| 40 | QYSDST2004Z | SCREW | 2mm x 4mm(x5) | |
| 41 | GE40218-011A | SHEET | | |
| 42 | GE10082-006A | FRONT PANEL | | AR3000 |
| 42 | GE10082-005A | FRONT PANEL | | LH300 |
| 43 | GE31177-002A | FINDER ASSY | | AR3000 |
| 43 | GE31177-001A | FINDER ASSY | | LH300 |
| 44 | GE30832-002A | POWER BUTTON | | |
| 45 | GE30856-001A | KNOB | | |
| 46 | GE30859-001A | SEL BUTTON | | |
| 47 | GE30834-001A | RIM LENS | | |
| 48 | GE30836-001A | RIM COVER(L) | | |
| 49 | GE31200-004A | RESET BUTTON | | AR3000 |
| 49 | GE31200-003A | RESET BUTTON | | LH300 |
| 50 | GE20152-001A | PRESET BUTTON | | |
| 51 | GE31172-002A | EQ BUTTON | | |
| 52 | GE31174-004A | DETACH BUTTON | | AR3000 |
| 52 | GE31174-003A | DETACH BUTTON | | LH300 |
| 53 | FSKW3002-012 | COMP.SPRING | | |
| 54 | GE30835-001A | NAV BUTTON | | |
| 55 | FSYH4036-013 | SHEET | | |
| 56 | GE30937-002A | NAVI BASE | | |
| 57 | GE30858-003A | RIM COVER(R) | | |
| 58 | GE30860-001A | FM/AM BUTTON | | |
| 59 | GE30861-002A | EQ BUTTON | | |
| 60 | GE31173-001A | EJECT BUTTON | | |
| 61 | GE31203-004A | R.COVER ASSY | | |
| 62 | VKZ4777-001 | MINI SCREW | (x4) | |
| 63 | GE40218-006A | SHEET | (x2) | |
| 64 | GE40218-008A | SHEET | | |
| 66 | GE40204-001A | JVC BADGE | | |
| 67 | GE31175-001A | LCD CASE | | |
| 68 | GE40218-007A | SHEET | | |
| 69 | GE30984-005A | LCD LENS | | |
| 70 | LV33404-001A | LENS CASE | | |
| 71 | LV42884-001A | LCD FILTER | | |
| 72 | LV42995-002A | LCD FILTER | | |
| 73 | LV42955-002A | LENS SHEET | | |
| 74 | LV43084-001A | DOUBLE FACE | | |
| 75 | LV40848-034A | SPACER(P) | | |
| 76 | LV40846-036A | SPACER(F) | | |
| 77 | GE31163-003A | NAME PLATE | | AR3000 |
| 77 | GE31160-002A | NAME PLATE | | LH300 |
| 78 | QLD0232-001 | LCD MODULE | | |
| 79 | QUQ105-2207AE | FFC WIRE | | |
| 80 | VYSH101-009 | SPACER | | |
| 81 | QAM0547-001 | SUBWOOFER CABEL | | |
| 82 | QAM0548-001 | L-IN CABLE | | AR3000 |
| 83 | VYTA500-001 | PIN CAP | (x4) | AR3000 |
| 83 | VYTA500-001 | PIN CAP | (x2) | LH300 |
| 84 | QNZ0664-001 | CAR CONNECTOR | | |
| 85 | QAL0536-001 | FPC CABLE | | |
| 86 | GE31205-003A | REAR BRACKET | | |
| 87 | GE40207-001A | POWER IC BKT | | |
| 88 | GE40208-001A | REG IC BKT | | |
| 89 | QYSDSF2606Z | SCREW | 2.6mm x 6mm | |
| 90 | QYSDSF2606Z | SCREW | 2.6mm x 6mm(x2) | |
| 91 | QYSDST2604Z | SCREW | 2.6mm x 4mm | |
| 92 | QYSDST2606Z | SCREW | 2.6mm x 6mm | |
| 93 | GE40214-001A | WIRE HOLDER | | |
| 94 | QYSDST2604Z | SCREW | 2.6mm x 4mm | |
| ⚠ 95 | QMFZ047-150-T | FUSE | 15A | |
| 96 | GE20156-001A | GEAR BKT UNIT | | |
| 97 | FSYH4036-100 | SHEET | | |
| 98 | GE30968-001A | LEVER BKT UNIT | | |
| 99 | GE30964-001A | LOWER LEVER ASS | | |

# CD mechanism assembly and parts list

Block No. M B M M

TN-2001-1013

Grease
- ★ TNG-87
- ※ GP-501MK
- ● CFD-005Z
- ▲ GP-501A



# CD mechanism

Block No. [M][B][M][M]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 1 | 30320101T | FRAME | | |
| 2 | 30320102T | TOP COVER | | |
| 3 | 30320115T | DANPER F | (x2) | |
| 4 | 30320116T | DANPER R | | |
| 11 | 303205505T | CHASSIS RIVET | | |
| 12 | 303205503T | CHANGE P. RVT A | | |
| 13 | 303205301T | CLAMPER ASSY | | |
| 14 | 303205302T | SPINDLE MOTOR A | | |
| 15 | 30320502T | CLAMPER ARM | | |
| 16 | 30320503T | CHANGE GEAR SPG | | |
| 17 | 30320505T | CHANGE GEAR 2 | | |
| 18 | 30320506T | FEED GEAR | | |
| 19 | 30320507T | FEED RACK | | |
| 20 | 30320509T | CHANGE LOCK RAR | | |
| 21 | 30320510T | FEED SW HOLDER | | |
| 22 | 30320511T | PU SHAFT HOLDER | | |
| 23 | 30320513T | CLAMPER SUB SPG | | |
| 24 | 30320514T | FD SUB HOLDER | | |
| 25 | 30320518T | TOP PLATE | | |
| 26 | 30320519T | SELECT LOCK ARM | | |
| 27 | 30320520T | TRIGGER ARM | | |
| 28 | 30320521T | SLIDE HOOK | | |
| 29 | 30320522T | PU SHAFT | | |
| 30 | 30320525T | CLAMPER ARM SPG | | |
| 31 | 30320526T | SELECT L ARM SP | | |
| 32 | 30320538T | SUSPENSION SP R | (x2) | |
| 33 | 30320529T | SELECT ARM R | | |
| 34 | 30320530T | LINK PLATE | | |
| 35 | 30320531T | LINK PLATE SPG | | |
| 36 | 30320523T | CUSHION F | | |
| 37 | 30320524T | CUSHION R | (x2) | |
| 38 | 30320539T | SUSPENSION SP L | (x2) | |
| 61 | 69011614T | PICKUP OPT-725 | | |
| 62 | 64180406T | DET SW ESE22 | | |
| 71 | 303210302T | CONN BOARD ASSY | | |
| 72 | 30321002T | MODE SW | | |
| 73 | 30321003T | LOAD MOTOR WIRE | | |
| 74 | 30321005T | MODE SW WIRE | | |
| 75 | 30321009T | SL WIRE | | |
| 76 | 30321011T | WIRE HOLDER | | |
| 77 | 19501403T | WIRE CLUMPER | | |
| 81 | 303211301T | ROLLER SHAFT AS | | |
| 82 | 303211501T | L GEAR PLATE RV | | |
| 83 | 303211302T | LOADING PLATE A | | |
| 84 | 303211502T | LOCK ARM RV ASS | | |
| 85 | 303211303T | L/F MOTOR ASSY | | |
| 86 | 30321101T | LOADING GEAR 1 | | |
| 87 | 30321102T | LOADING GEAR 2 | | |
| 88 | 30321103T | LOADING GEAR 3 | | |
| 89 | 30321104T | LOADING GEAR 4 | | |
| 90 | 30321105T | LOADING GEAR 5 | | |
| 91 | 30321106T | LOADING GEAR 6 | | |
| 92 | 30321107T | LOADING GEAR 7 | | |
| 93 | 30321111T | ROLLER GUIDE | (x2) | |
| 94 | 30321114T | ROLLER GUIDE SP | (x2) | |
| 95 | 30321116T | DISC STOPPER AR | | |
| 96 | 30321117T | DISC ST ARM SPG | | |
| 97 | 30321118T | LD GEAR BRACKET | | |
| 98 | 30321125T | L SIDE PLATE | | |
| 99 | 30321131T | LOAD PLATE SPG | | |
| 100 | 30321133T | LDG ROLLER | (x2) | |
| 101 | 18211223T | COLLAR SCREW | | |
| 111 | 9P0420031T | SCREW | (x6) | |
| 112 | 9P0420041T | TAP.SCREW | (x2) | |
| 113 | 9B0320041T | SCREW | | |
| 114 | 9C0117183T | SCREW | (x2) | |
| 115 | 9C0120203T | SCREW | | |
| 116 | 9C0317503T | SCREW | | |
| 121 | 9W0130170T | PW 3.5X8X0.3 | | |
| 122 | 9W0513060T | HL WASHER | | |
| 123 | 9W0710070T | L WASHER | | |
| 124 | 9E0100152T | E RING | | |
| 125 | 9W0113020T | PW 2.1X4X0.13 | | |

# Electrical parts list

## Main board

Block No. [0][1][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC161 | TDA7404D-X | IC | | |
| IC201 | M62449FP-X | IC | | |
| IC251 | NJM4565M-WE | IC | | |
| IC271 | CD4066BPW-X | IC | | |
| IC301 | LA47515 | IC | | |
| IC361 | NJM2160AV-X | IC | | |
| IC381 | NJM2160AV-X | IC | | |
| IC701 | UPD784217AGC247 | IC | | |
| IC702 | IC-PST3433U-X | IC | | |
| IC703 | BR24L16F-W-X | IC | | |
| IC801 | HD74HC126FP-X | IC | | |
| IC901 | AN80T07 | IC | | |
| IC921 | NJM2360AM-X | IC | | |
| IC951 | BA6956AN | IC | | |
| Q5 | 2SB624/4/-X | TRANSISTOR | | |
| Q6 | 2SB624/4/-X | TRANSISTOR | | |
| Q7 | UN2211-X | TRANSISTOR | | |
| Q241 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q251 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q252 | UN2111-X | TRANSISTOR | | |
| Q271 | UN2211-X | TRANSISTOR | | |
| Q272 | UN2211-X | TRANSISTOR | | |
| Q301 | UN2211-X | TRANSISTOR | | |
| Q302 | 2SD601A/QR/-X | TRANSISTOR | | AR3000 |
| Q321 | KTD1304-X | TRANSISTOR | | |
| Q331 | KTD1304-X | TRANSISTOR | | |
| Q341 | KTD1304-X | TRANSISTOR | | |
| Q351 | KTD1304-X | TRANSISTOR | | |
| Q701 | UN2211-X | TRANSISTOR | | |
| Q702 | UN2214-X | TRANSISTOR | | |
| Q703 | UN2211-X | TRANSISTOR | | |
| Q704 | UN2213-X | DIGI TRANSISTOR | | |
| Q705 | UN2211-X | TRANSISTOR | | |
| Q706 | UN2211-X | TRANSISTOR | | |
| Q707 | UN2211-X | TRANSISTOR | | |
| Q781 | UN2111-X | TRANSISTOR | | |
| Q782 | UN2111-X | TRANSISTOR | | |
| Q841 | UN2211-X | TRANSISTOR | | |
| Q881 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q901 | UN2111-X | TRANSISTOR | | |
| Q902 | UN2211-X | TRANSISTOR | | |
| Q951 | UN2211-X | TRANSISTOR | | |
| Q976 | UN2213-X | DIGI TRANSISTOR | | |
| Q977 | 2SB709A/QR/-X | TRANSISTOR | | |
| D1 | MA111-X | SI DIODE | | |
| D2 | MA111-X | SI DIODE | | |
| D3 | MA111-X | SI DIODE | | |
| D4 | MA111-X | SI DIODE | | |
| D241 | MA111-X | SI DIODE | | |
| D242 | MA111-X | SI DIODE | | |
| D252 | MA111-X | SI DIODE | | |
| D253 | MA111-X | SI DIODE | | |
| D301 | MA111-X | SI DIODE | | |
| D321 | MA111-X | SI DIODE | | |
| D331 | MA111-X | SI DIODE | | |
| D341 | MA111-X | SI DIODE | | |
| D351 | MA111-X | SI DIODE | | |
| D701 | MA111-X | SI DIODE | | |
| D702 | MA8062/M/-X | Z DIODE | | |
| D703 | MA8062/M/-X | Z DIODE | | |
| D704 | MA8062/M/-X | Z DIODE | | |
| D705 | MA8062/M/-X | Z DIODE | | |
| D706 | MA8062/M/-X | Z DIODE | | |
| D707 | MA8062/M/-X | Z DIODE | | |
| D708 | MA8062/M/-X | Z DIODE | | |
| D709 | MA8062/M/-X | Z DIODE | | |
| D710 | MA8062/M/-X | Z DIODE | | |
| D714 | MA111-X | SI DIODE | | |
| D715 | MA111-X | SI DIODE | | |
| D781 | MA111-X | SI DIODE | | |
| D782 | UDZS11B-X | Z DIODE | | |
| D851 | RB160M-30-X | SB DIODE | | AR3000 |
| D852 | RB160M-30-X | SB DIODE | | AR3000 |
| D853 | RB160M-30-X | SB DIODE | | |
| D854 | RB160M-30-X | SB DIODE | | |
| D901 | MA111-X | SI DIODE | | |
| D902 | MA111-X | SI DIODE | | |
| D921 | RB160M-30-X | SB DIODE | | |
| D922 | MA111-X | SI DIODE | | |
| D951 | UDZS3.9B-X | Z DIODE | | |
| D961 | 1N5404-TU-15 | DIODE | | |
| C1 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C2 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C3 | QERF1AM-476Z | E CAPACITOR | 47uF 10V M | |
| C4 | QERF1AM-476Z | E CAPACITOR | 47uF 10V M | |
| C5 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C6 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C7 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C8 | NDC31HJ-331X | C CAPACITOR | 330pF 50V J | |
| C9 | QERF1HM-104Z | E CAPACITOR | 0.1uF 50V M | |
| C81 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C82 | NCB31EK-223X | C CAPACITOR | 0.022uF 25V K | |
| C91 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C92 | NCB31EK-223X | C CAPACITOR | 0.022uF 25V K | |
| C142 | NCB21CK-474X | C CAPACITOR | 0.47uF 16V K | AR3000 |
| C161 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C162 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C163 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C164 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | AR3000 |
| C165 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | AR3000 |
| C166 | QERF1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C167 | QERF1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C168 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C169 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C181 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C182 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C183 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C184 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | AR3000 |
| C201 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C202 | NCB31CK-823X | C CAPACITOR | 0.082uF 16V K | |
| C203 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C204 | NCB31EK-273X | C CAPACITOR | 0.027uF 25V K | |
| C205 | NCB31CK-393X | C CAPACITOR | 0.039uF 16V K | |
| C206 | NCB31HK-123X | C CAPACITOR | 0.012uF 50V K | |
| C207 | NCB31HK-153X | C CAPACITOR | 0.015uF 50V K | |
| C208 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C209 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | |
| C210 | NCB31HK-182X | C CAPACITOR | 1800pF 50V K | |
| C211 | NCB31HK-272X | C CAPACITOR | 2700pF 50V K | |
| C212 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C213 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C214 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C215 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C216 | QERF1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C221 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C222 | NCB31CK-823X | C CAPACITOR | 0.082uF 16V K | |
| C223 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C224 | NCB31EK-273X | C CAPACITOR | 0.027uF 25V K | |
| C225 | NCB31CK-393X | C CAPACITOR | 0.039uF 16V K | |
| C226 | NCB31HK-123X | C CAPACITOR | 0.012uF 50V K | |
| C227 | NCB31HK-153X | C CAPACITOR | 0.015uF 50V K | |
| C228 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C229 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | |
| C230 | NCB31HK-182X | C CAPACITOR | 1800pF 50V K | |
| C231 | NCB31HK-272X | C CAPACITOR | 2700pF 50V K | |
| C232 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C241 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C242 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C243 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C244 | QERF1CM-226Z | E CAPACITOR | 22uF 16V M | |
| C245 | QERF1HM-224Z | E CAPACITOR | 0.22uF 50V M | |
| C251 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | AR3000 |
| C251 | NCB31HK-822X | C CAPACITOR | 8200pF 50V K | LH300 |
| C252 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C253 | QERF0JM-107Z | E CAPACITOR | 100uF 6.3V M | |
| C255 | QERF1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C256 | NCB31EK-823X | C CAPACITOR | 0.082uF 25V K | |
| C257 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C259 | QERF0JM-476Z | E CAPACITOR | 47uF 6.3V M | |
| C261 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C262 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C271 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C272 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | AR3000 |
| C272 | NCB31HK-562X | C CAPACITOR | 5600pF 50V K | LH300 |
| C273 | NCB31EK-333X | C CAPACITOR | 0.033uF 25V K | |
| C274 | NCB31EK-273X | C CAPACITOR | 0.027uF 25V K | |
| C275 | NCB31EK-273X | C CAPACITOR | 0.027uF 25V K | |
| C301 | QFVD1HJ-474Z | MF CAPACITOR | 0.47uF 50V J | |
| C302 | QFVD1HJ-474Z | MF CAPACITOR | 0.47uF 50V J | |
| C303 | NCB31HK-331X | C CAPACITOR | 330pF 50V K | |
| C304 | NCB31HK-331X | C CAPACITOR | 330pF 50V K | |
| C305 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C306 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C307 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C308 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C309 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C310 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C311 | QFVD1HJ-474Z | MF CAPACITOR | 0.47uF 50V J | |
| C312 | QFVD1HJ-474Z | MF CAPACITOR | 0.47uF 50V J | |
| C313 | NCB31HK-331X | C CAPACITOR | 330pF 50V K | |
| C314 | NCB31HK-331X | C CAPACITOR | 330pF 50V K | |
| C315 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C316 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C317 | QERF1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C318 | QERF1CM-226Z | E CAPACITOR | 22uF 16V M | |
| C319 | NCB31EK-223X | C CAPACITOR | 0.022uF 25V K | |
| C320 | NCB31EK-223X | C CAPACITOR | 0.022uF 25V K | |
| C321 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C322 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C361 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C362 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C363 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C364 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C365 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | |
| C366 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | |
| C367 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C368 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C369 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C370 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C371 | QERF1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C372 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C381 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C382 | QERF1EM-475Z | E CAPACITOR | 4.7uF 25V M | |
| C383 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C384 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C385 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | |
| C386 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | |
| C387 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C388 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C389 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C390 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C391 | QERF1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C701 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C702 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C703 | NDC31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C704 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C705 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C706 | QERF0JM-107Z | E CAPACITOR | 100uF 6.3V M | |
| C707 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C708 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C709 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C710 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C711 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C712 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C713 | NDC31HJ-8R0X | C CAPACITOR | 8pF 50V J | |
| C714 | NDC31HJ-270X | C CAPACITOR | 27pF 50V J | |
| C715 | NDC31HJ-270X | C CAPACITOR | 27pF 50V J | |
| C716 | NDC31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C717 | QERF0JM-476Z | E CAPACITOR | 47uF 6.3V M | |
| C718 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C719 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C720 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C721 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C722 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C781 | NCB31CK-224X | C CAPACITOR | 0.22uF 16V K | |
| C782 | QERF0JM-107Z | E CAPACITOR | 100uF 6.3V M | |
| C783 | QERF1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C801 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C802 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C841 | QERF1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C851 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | AR3000 |
| C852 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C881 | QERF1CM-226Z | E CAPACITOR | 22uF 16V M | |
| C901 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C902 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C903 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C904 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C905 | QERF1CM-226Z | E CAPACITOR | 22uF 16V M | |
| C906 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C907 | QERF1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C908 | QERF1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C909 | QERF1CM-226Z | E CAPACITOR | 22uF 16V M | |
| C910 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C921 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C922 | QERF1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C923 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C924 | NCB31HK-272X | C CAPACITOR | 2700pF 50V K | |
| C951 | QERF1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C961 | QEZ0675-338 | E CAPACITOR | 3300uF | |
| C962 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C978 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C991 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C992 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C993 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C994 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C995 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C996 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C997 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C998 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| R1 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R2 | NRSA63J-270X | MG RESISTOR | 27Ω 1/16W J | |
| R3 | NRSA63J-100X | MG RESISTOR | 10Ω 1/16W J | |
| R4 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | |
| R5 | NRSA02J-220X | MG RESISTOR | 22Ω 1/10W J | |
| R6 | NRSA02J-220X | MG RESISTOR | 22Ω 1/10W J | |
| R7 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R8 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R9 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R10 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R11 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R60 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R81 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R82 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R91 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R92 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R141 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | AR3000 |
| R151 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | AR3000 |
| R162 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R163 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R164 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R166 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R167 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R168 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R169 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R170 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R171 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R177 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R178 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R182 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R183 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R184 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R186 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R187 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R188 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R197 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R198 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R241 | NRSA63J-124X | MG RESISTOR | 120kΩ 1/16W J | |
| R242 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R243 | NRSA63J-184X | MG RESISTOR | 180kΩ 1/16W J | |
| R244 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R245 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R246 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R247 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R248 | NRSA63J-274X | MG RESISTOR | 270kΩ 1/16W J | |
| R251 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R252 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R253 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R254 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R255 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R256 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R257 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R258 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R259 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R260 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R261 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R262 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R263 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R271 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R272 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R273 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R274 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R275 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R276 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R301 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R302 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R307 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R308 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R311 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R312 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R321 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R322 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R323 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R331 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R332 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R333 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R341 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R342 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R343 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R351 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R352 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R353 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R361 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R362 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R363 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R364 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R366 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R367 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R381 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R382 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R383 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R384 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R386 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R387 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R701 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | AR3000 |
| R702 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R703 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R704 | NRSA63J-106X | MG RESISTOR | 10MΩ 1/16W J | |
| R705 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R706 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R707 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R708 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R709 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R710 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R711 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R712 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R713 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R716 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R717 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R718 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R719 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R720 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R721 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R722 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R725 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R726 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R727 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R728 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R729 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R730 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R731 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R732 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R733 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R734 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R735 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R736 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R737 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R738 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R739 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R740 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R741 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R742 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R745 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R746 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R747 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R748 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R749 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R750 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R751 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R752 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R753 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R754 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R755 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R757 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R760 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R761 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R762 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R763 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R764 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R767 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R768 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R769 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R770 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R771 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R772 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R773 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R774 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | LH300 |
| R775 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | AR3000 |
| R776 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R777 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R779 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R780 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R788 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R789 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R790 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R791 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R792 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R793 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R795 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R797 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R798 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | AR3000 |
| R799 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | AR3000 |
| R801 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R802 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R803 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R804 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R805 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R806 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R807 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R808 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R809 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R810 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R841 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R851 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | AR3000 |
| R852 | NRSA02J-222X | MG RESISTOR | 2.2kΩ 1/10W J | |
| R853 | NRSA02J-222X | MG RESISTOR | 2.2kΩ 1/10W J | |
| R881 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R882 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R883 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R901 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R902 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R903 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R904 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R921 | NRSA02J-100X | MG RESISTOR | 10Ω 1/10W J | |
| R922 | NRSA02J-100X | MG RESISTOR | 10Ω 1/10W J | |
| R923 | NRSA02J-100X | MG RESISTOR | 10Ω 1/10W J | |
| R924 | NRSA02J-100X | MG RESISTOR | 10Ω 1/10W J | |
| R925 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R926 | NRSA63D-473X | MG RESISTOR | 47kΩ 1/16W D | |
| R927 | NRSA63D-472X | MG RESISTOR | 4.7kΩ 1/16W D | |
| R951 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R976 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R977 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R978 | NRS181J-222X | MG RESISTOR | 2.2kΩ 1/8W J | |
| R979 | NRSA63J-912X | MG RESISTOR | 9.1kΩ 1/16W J | |
| R980 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R983 | NRS181J-222X | MG RESISTOR | 2.2kΩ 1/8W J | |
| RA701 | NRZ0065-222X | MG RESISTOR | 2.2kΩ | |
| VR921 | NVP1505-473X | TRIM RESISTOR | 47kΩ | |
| L1 | QQL244J-4R7Z | INDUCTIOR | 4.7uH J | |
| L701 | QQL244J-470Z | COIL | 47uH J | |
| L702 | QQL244J-470Z | COIL | 47uH J | |
| L703 | QQL244J-470Z | COIL | 47uH J | |
| L921 | QQL244J-4R7Z | INDUCTIOR | 4.7uH J | |
| L922 | NQLZ007-151X | COIL | 150uH | |
| L961 | QQR1378-002 | CHOKE COIL | | |
| BZ841 | QAN0023-001Z | BUZZER | | |
| CN141 | QGA2006C1-04 | CONNECTOR | W-B (1-4) | AR3000 |
| CN251 | QGA2501C1-03 | CONNECTOR | W-B (1-3) | |
| CN701 | QGF1041C1-16W | CONNECTOR | FFC/FPC (1-16) | |
| CN702 | QGB2027M4-22S | CONNECTOR | B-B (1-22) | |
| CN901 | QNZ0611-001 | 16P CONNECTOR | | |
| CN951 | QGA2501F1-02 | CONNECTOR | W-B (1-2) | |
| CN952 | QJB005-040909 | SIN ID C-B WIRE | | |
| J1 | QAM0556-001 | ANT CABLE | | |
| J321 | QNN0490-001 | PIN JACK | | |
| J801 | QNZ0095-001 | CONNECTOR | | |
| PP1 | QZW0010-001 | STYLE PIN | | |
| PP2 | QZW0010-001 | STYLE PIN | | |
| PP3 | QZW0010-001 | STYLE PIN | | |
| TU1 | QAU0204-002 | TUNER | | |
| X701 | QAX0617-001Z | CRYSTAL | 12.500MHz | |
| X702 | QAX0401-001 | CRYSTAL | 32.768KHz | |

# Front board

Block No. [0][2][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC801 | MN102H60KCN1 | IC | | |
| IC802 | LH28F160BJHET95 | IC I/M | | |
| IC803 | IC-PST3424U-X | IC | | |
| IC804 | NJU7241F33-X | IC | | |
| IC805 | GP1UM261XK | IR DETECT UNIT | 38kHz | |
| Q400 | UN2211-X | TRANSISTOR | | |
| Q401 | UN2211-X | TRANSISTOR | | |
| Q402 | UN2211-X | TRANSISTOR | | |
| Q403 | UN2211-X | TRANSISTOR | | |
| Q404 | UN2211-X | TRANSISTOR | | |
| Q405 | UN2211-X | TRANSISTOR | | |
| Q406 | UN2211-X | TRANSISTOR | | |
| Q407 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q408 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q409 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q410 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q411 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q412 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q413 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q420 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q421 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q422 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q423 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q424 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q425 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q480 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q801 | 2SB709A/QR/-X | TRANSISTOR | | |
| Q802 | 2SB709A/QR/-X | TRANSISTOR | | |
| Q803 | 2SD601A/QR/-X | TRANSISTOR | | |
| Q804 | UN2111-X | TRANSISTOR | | |
| D400 | MA152WK-X | SI DIODE | | |
| D401 | SML-310LT/MN/-X | LED | | |
| D402 | SML-310LT/MN/-X | LED | | |
| D403 | SML-310LT/MN/-X | LED | | |
| D404 | SML-310LT/MN/-X | LED | | |
| D405 | SML-A12BC2T-X | BLUELED | | |
| D406 | SML-A12BC2T-X | BLUELED | | |
| D407 | SML-310LT/MN/-X | LED | | |
| D408 | SML-310LT/MN/-X | LED | | |
| D409 | SML-310LT/MN/-X | LED | | |
| D410 | SML-310LT/MN/-X | LED | | |
| D411 | SML-310LT/MN/-X | LED | | |
| D412 | SML-310LT/MN/-X | LED | | |
| D413 | SML-310LT/MN/-X | LED | | |
| D414 | SML-310LT/MN/-X | LED | | |
| D415 | SML-310LT/MN/-X | LED | | |
| D416 | SML-310LT/MN/-X | LED | | |
| D417 | SML-310LT/MN/-X | LED | | |
| D418 | SML-310LT/MN/-X | LED | | |
| D419 | SML-310LT/MN/-X | LED | | |
| D420 | SML-310LT/MN/-X | LED | | |
| D421 | CL-190UB2-X-X | LED | | |
| D422 | CL-190UB2-X-X | LED | | |
| D423 | MA8062/M/-X | Z DIODE | | |
| D424 | MA8062/M/-X | Z DIODE | | |
| D425 | MA8062/M/-X | Z DIODE | | |
| D429 | MA8062/M/-X | Z DIODE | | |
| D430 | MA8062/M/-X | Z DIODE | | |
| D431 | MA8062/M/-X | Z DIODE | | |
| D451 | NSCM315C-W | LED | | |
| D453 | NSCM315C-W | LED | | |
| D801 | MA152WK-X | SI DIODE | | |
| D802 | MA111-X | SI DIODE | | |
| D803 | MA111-X | SI DIODE | | |
| D804 | MA8062/M/-X | Z DIODE | | |
| D805 | MA8062/M/-X | Z DIODE | | |
| D806 | MA8062/M/-X | Z DIODE | | |
| D807 | MA8062/M/-X | Z DIODE | | |
| D808 | MA8062/M/-X | Z DIODE | | |
| D809 | MA8062/M/-X | Z DIODE | | |
| D810 | MA8062/M/-X | Z DIODE | | |
| D811 | MA8062/M/-X | Z DIODE | | |
| D812 | MA8062/M/-X | Z DIODE | | |
| C451 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C452 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C453 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C457 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C458 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C459 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C636 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C637 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C801 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C802 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C804 | NDC31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C805 | NDC31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C806 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C807 | NBE20JM-475X | TA E CAPACITOR | 4.7uF 6.3V M | |
| C808 | NBE20JM-475X | TA E CAPACITOR | 4.7uF 6.3V M | |
| C809 | NBE20JM-475X | TA E CAPACITOR | 4.7uF 6.3V M | |
| C810 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C811 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C812 | NBE20JM-475X | TA E CAPACITOR | 4.7uF 6.3V M | |
| C813 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C814 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C815 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C816 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C817 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C818 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C819 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C820 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C821 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C822 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C823 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C824 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C825 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C826 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C827 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C828 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C829 | NBE20JM-475X | TA E CAPACITOR | 4.7uF 6.3V M | |
| C831 | NBE21VM-104X | TA E CAPACITOR | 0.1uF 35V M | |
| C834 | NBE21CM-105X | TA E CAPACITOR | 1uF 16V M | |
| C835 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| R401 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R402 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R403 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R404 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R405 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R406 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R407 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R408 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R409 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R410 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R411 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R412 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R413 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R414 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R415 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R416 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R417 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R418 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R419 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R420 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R421 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R422 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R423 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R424 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R425 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R426 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R427 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R428 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R429 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R430 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R431 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R432 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R433 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R434 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R435 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R436 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R437 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R438 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R439 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R449 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R450 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R451 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R452 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R453 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R454 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R455 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R456 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R457 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R479 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R601 | NRSA63J-301X | MG RESISTOR | 300Ω 1/16W J | |
| R602 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R603 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R604 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R605 | NRSA63J-301X | MG RESISTOR | 300Ω 1/16W J | |
| R606 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R607 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R608 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R609 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R610 | NRSA63J-301X | MG RESISTOR | 300Ω 1/16W J | |
| R611 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R612 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R613 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R614 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R616 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R801 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R803 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R804 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R806 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R807 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R816 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R817 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R818 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R819 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R821 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R822 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R823 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R824 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R825 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R826 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R827 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R828 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R829 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R830 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R835 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R836 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R837 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R838 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R839 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R840 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R841 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R842 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R843 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R844 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R845 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R846 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R847 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R865 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R866 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R867 | NRSA63J-225X | MG RESISTOR | 2.2MΩ 1/16W J | |
| R868 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R869 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R870 | NRSA63J-474X | MG RESISTOR | 470kΩ 1/16W J | |
| R872 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R873 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R874 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R877 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R878 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R891 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R892 | NRSA63J-474X | MG RESISTOR | 470kΩ 1/16W J | |
| R895 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R896 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R897 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R898 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R899 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RA801 | NRZ0065-331X | NET RESISTOR | 330Ω | |
| RA802 | NRZ0065-331X | NET RESISTOR | 330Ω | |
| RA803 | NRZ0065-331X | NET RESISTOR | 330Ω | |
| RA804 | NRZ0065-331X | NET RESISTOR | 330Ω | |
| RA805 | NRZ0065-102X | MG RESISTOR | 1kΩ | |
| RA806 | NRZ0065-102X | MG RESISTOR | 1kΩ | |
| RA807 | NRZ0065-331X | NET RESISTOR | 330Ω | |
| RA808 | NRZ0065-331X | NET RESISTOR | 330Ω | |
| RA809 | NRZ0065-331X | NET RESISTOR | 330Ω | |
| RA810 | NRZ0065-103X | MG RESISTOR | 10kΩ | |
| L801 | NQL114K-470X | INDUCITOR | 47uH K | |
| CN801 | NNZ0098-001X | CAR CONNECTOR | | |
| CN802 | QGF0523F1-40W | CONNECTOR | FFC/FPC (1-40) | |
| JS801 | QSW0976-001 | ROTARY ENCODER | | |
| S600 | NSW0124-001X | TACT SW | | |
| S601 | NSW0124-001X | TACT SW | | |
| S602 | NSW0124-001X | TACT SW | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| S603 | NSW0124-001X | TACT SW | | |
| S604 | NSW0124-001X | TACT SW | | |
| S605 | NSW0124-001X | TACT SW | | |
| S606 | NSW0124-001X | TACT SW | | |
| S607 | NSW0124-001X | TACT SW | | |
| S608 | NSW0124-001X | TACT SW | | |
| S609 | NSW0124-001X | TACT SW | | |
| S610 | NSW0124-001X | TACT SW | | |
| S611 | NSW0124-001X | TACT SW | | |
| S612 | NSW0124-001X | TACT SW | | |
| S613 | NSW0124-001X | TACT SW | | |
| S614 | NSW0124-001X | TACT SW | | |
| S615 | NSW0124-001X | TACT SW | | |
| S616 | NSW0124-001X | TACT SW | | |
| S617 | NSW0124-001X | TACT SW | | |
| S618 | NSW0124-001X | TACT SW | | |
| TH801 | NAD0028-103X | N THERMISTOR | 10kΩ | |
| X801 | NAX0652-001X | RESONATOR | | |

## CD mecha control board

Block No. [0][3][0][0]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC501 | TMP91CW12AF5DG8 | IC | | |
| IC502 | BR24L01AFV-W-X | IC | | |
| IC503 | SN74AHCT126PW-X | IC(DIGITAL) | | |
| IC504 | NJU7241F33-X | IC | | |
| IC571 | PCM1748KE-X | IC | | |
| IC572 | NJM4565V-X | IC | | |
| IC573 | SN74AHCU04PW-X | IC | | |
| IC601 | TA2157FN-X | RF AMP IC | | |
| IC621 | TC94A14FA | CD LSI IC | | |
| IC651 | NJU7772F15-X | IC | | |
| IC652 | TC94A34FG-002 | IC | | |
| IC681 | BA5830FP-X | IC | | |
| Q501 | UN2111-X | TRANSISTOR | | |
| Q502 | UN2211-X | TRANSISTOR | | |
| Q571 | UN2111-X | TRANSISTOR | | |
| Q572 | UN2211-X | TRANSISTOR | | |
| Q573 | 2SB624/4/-X | TRANSISTOR | | |
| Q574 | UN2211-X | TRANSISTOR | | |
| Q601 | 2SB1132/QR/-W | TRANSISTOR | | |
| Q651 | 2SB624/4/-X | TRANSISTOR | | |
| Q652 | UN2211-X | TRANSISTOR | | |
| Q681 | 2SB1184/QR/-X | TRANSISTOR | | |
| D506 | MA111-X | SI DIODE | | |
| D682 | 1SR154-400-X | DIODE | | |
| C501 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C502 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C503 | NEAD0JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C504 | NDC31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C505 | NDC31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C506 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C507 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C508 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C509 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C510 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C511 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C512 | NEAD0JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C513 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C514 | NCS31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C551 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C571 | NDC31HJ-270X | C CAPACITOR | 27pF 50V J | |
| C572 | NDC31HJ-270X | C CAPACITOR | 27pF 50V J | |
| C573 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C574 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C575 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C576 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C577 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C578 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |

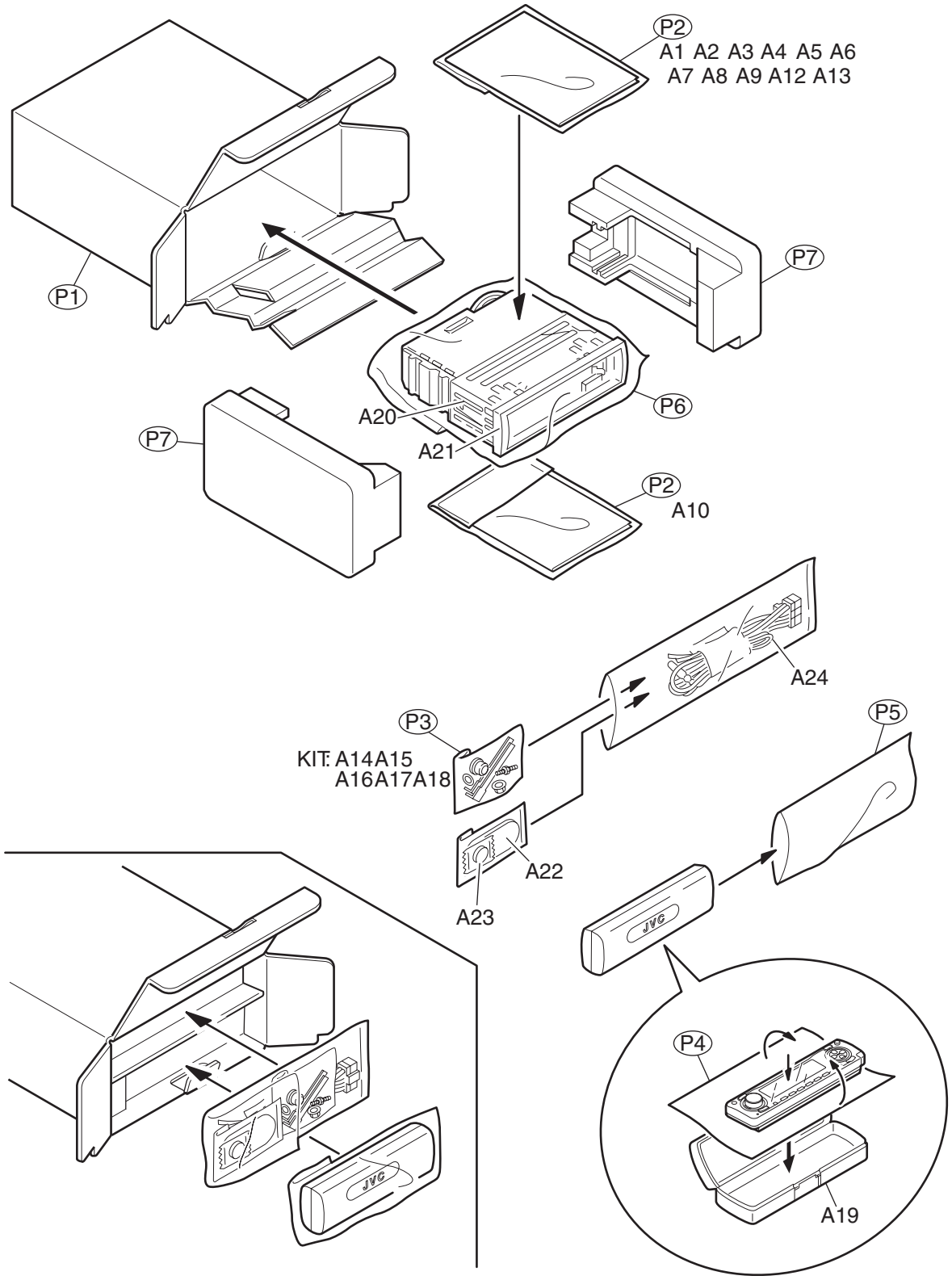
| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C581 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C582 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C583 | NCS31HJ-821X | C CAPACITOR | 820pF 50V J | |
| C584 | NCS31HJ-821X | C CAPACITOR | 820pF 50V J | |
| C585 | NEAD1VM-475X | E CAPACITOR | 4.7uF 35V M | |
| C586 | NEAD1VM-475X | E CAPACITOR | 4.7uF 35V M | |
| C587 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | |
| C588 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | |
| C589 | NEAD1VM-475X | E CAPACITOR | 4.7uF 35V M | |
| C590 | NEAD1VM-475X | E CAPACITOR | 4.7uF 35V M | |
| C591 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C592 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C593 | NEAD1CM-476X | E CAPACITOR | 47uF 16V M | |
| C594 | NCS31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C595 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C596 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C597 | NCS31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C598 | NCS31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C601 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C602 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C603 | NEAD0JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C604 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C605 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | |
| C606 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C607 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C608 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C609 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C610 | NDC31HJ-5R0X | C CAPACITOR | 5pF 50V J | |
| C611 | NDC31HJ-680X | C CAPACITOR | 68pF 50V J | |
| C612 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C613 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C614 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C616 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C621 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C622 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C623 | NDC31HJ-470X | C CAPACITOR | 47pF 50V J | |
| C624 | NCB31HK-153X | C CAPACITOR | 0.015uF 50V K | |
| C625 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C626 | NCB31HK-272X | C CAPACITOR | 2700pF 50V K | |
| C627 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C628 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C629 | NCB31EK-333X | C CAPACITOR | 0.033uF 25V K | |
| C630 | NCB31EK-333X | C CAPACITOR | 0.033uF 25V K | |
| C631 | NDC31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C632 | NDC31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C633 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C634 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C635 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C636 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C637 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C638 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C639 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C640 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C641 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C642 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C643 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C644 | NCB31AK-334X | C CAPACITOR | 0.33uF 10V K | |
| C645 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C646 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C651 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C652 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C653 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C654 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C655 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C656 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C659 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C660 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C661 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C662 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C663 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C664 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C665 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C666 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C667 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C668 | NEAD0JM-476X | E CAPACITOR | 47uF 6.3V M | |
| C669 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C682 | NEAD1VM-475X | E CAPACITOR | 4.7uF 35V M | |
| C683 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C684 | NEAD1CM-476X | E CAPACITOR | 47uF 16V M | |
| C689 | NEAD1CM-476X | E CAPACITOR | 47uF 16V M | |
| C690 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C693 | NEAD1CM-476X | E CAPACITOR | 47uF 16V M | |
| R501 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R502 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R503 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R504 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R505 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R506 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R507 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R508 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R509 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R510 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R511 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R512 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R513 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R514 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R515 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R516 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R517 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R518 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R519 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R520 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R521 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R522 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R523 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R525 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R526 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R528 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R530 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R531 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R532 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R533 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R534 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R535 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R536 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R537 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R539 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R540 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R541 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R542 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R543 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R544 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R545 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R546 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R547 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R548 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R549 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R550 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R551 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R552 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R553 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R554 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R555 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R556 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R557 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R558 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R559 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R560 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R561 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R562 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R563 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R568 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R569 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R570 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R572 | NRSA63J-225X | MG RESISTOR | 2.2MΩ 1/16W J | |
| R573 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R574 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R575 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R576 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R577 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R578 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R579 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R581 | NRSA63J-203X | MG RESISTOR | 20kΩ 1/16W J | |
| R582 | NRSA63J-203X | MG RESISTOR | 20kΩ 1/16W J | |
| R583 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R584 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R585 | NRSA63J-303X | MG RESISTOR | 30kΩ 1/16W J | |
| R586 | NRSA63J-303X | MG RESISTOR | 30kΩ 1/16W J | |
| R587 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R588 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R589 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R590 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R591 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R592 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R593 | NRSA63J-4R7X | MG RESISTOR | 4.7Ω 1/16W J | |
| R601 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R602 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R603 | NRSA63J-334X | MG RESISTOR | 330kΩ 1/16W J | |
| R604 | NRSA63J-334X | MG RESISTOR | 330kΩ 1/16W J | |
| R605 | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J | |
| R606 | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J | |
| R607 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R608 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R609 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J | |
| R610 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R611 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R612 | NRSA63J-202X | MG RESISTOR | 2kΩ 1/16W J | |
| R613 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R614 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R615 | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J | |
| R616 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R621 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R622 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R623 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R624 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R625 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R626 | NRSA63J-474X | MG RESISTOR | 470kΩ 1/16W J | |
| R627 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R628 | NRSA63J-155X | MG RESISTOR | 1.5MΩ 1/16W J | |
| R629 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R630 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R631 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R632 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R633 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R634 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R635 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R636 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R637 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R638 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R639 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R640 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R641 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R642 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R651 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R654 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R655 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R656 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R657 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R668 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R675 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R681 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R682 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R683 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R684 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R685 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R686 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R687 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R688 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J | |
| R689 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R690 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R691 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| L501 | NQL114K-470X | INDUCITOR | 47uH K | |
| L502 | NQL114K-470X | INDUCITOR | 47uH K | |
| L571 | NQL114K-470X | INDUCITOR | 47uH K | |
| L572 | NQL114K-470X | INDUCITOR | 47uH K | |
| L621 | NQL114K-470X | INDUCITOR | 47uH K | |
| L622 | NQL114K-470X | INDUCITOR | 47uH K | |
| L623 | NQL114K-470X | INDUCITOR | 47uH K | |
| L651 | NQL114K-470X | INDUCITOR | 47uH K | |
| L652 | NQL114K-470X | INDUCITOR | 47uH K | |
| L653 | NQL114K-470X | INDUCITOR | 47uH K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| CN501 | QGB2027L1-22X | CONNECTOR | B-B (1-22) | |
| CN601 | QGF0527F2-22W | CONNECTOR | FFC/FPC (1-22) | |
| TH501 | NAD0028-103X | N THERMISTOR | 10kΩ | |
| X501 | NAX0385-001X | CRYSTAL | 24.576MHz | |
| X571 | NAX0375-001X | CRYSTAL | 16.9344MHz | |

# Packing materials and accessories parts list

Block No. M 3 M M



# Packing and accessories

Block No. [M][3][M][M]

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| A 1 | GET0201-001B | INST BOOK | ENG SPA FRE | |
| A 2 | GET0201-002A | INSTALL MANUAL | | |
| A 3 | GET0207-001A | IMPORTANT SHEET | | AR3000 |
| A 3 | GET0207-001A | IMPORTANT SHEET | | LH300 |
| A 4 | GET0165-001A | DEMO MODE SHEET | | |
| A 5 | LVT0717-001B | TROUBLE SHEET(C | | |
| A 6 | LVT1120-001A | MP3 GUIDE | | |
| A 7 | BT-51029-1 | WARRANTY CARD | | AR3000 |
| A 7 | BT-51018-3 | WARRANTY CARD | | LH300 |
| A 8 | BT-52006-2 | WARRANTY CARD | | |
| A 9 | BT-51034-1 | J=REGIST CARD | | |
| A 10 | LVT1121-001A | IMAGE CONVERTER | | |
| A 12 | LVT1122-001A | SIRIUS SHEET | | |
| A 13 | GET0213-001A | CAUTION SHEET | | |
| A 14 | VKZ4027-202 | PLUG NUT | | |
| A 15 | VKH4871-001SS | MOUNT BOLT | | |
| A 16 | VKZ4328-001 | LOCK NUT | | |
| A 17 | WNS5000Z | WASHER | | |
| A 18 | GE40130-002A | HOOK | (x2) | |
| A 19 | FSJB3002-00C | HARD CASE | | |
| A 20 | GE20137-003A | MOUNTING SLEEVE | | |
| A 21 | GE20164-002A | TRIM PLATE | | AR3000 |
| A 21 | GE20164-001A | TRIM PLATE | | LH300 |
| A 22 | RM-RK50 | REMOCON UNIT | | |
| A 23 | ---------- | BATTERY | | |
| ⚠ A 24 | QAM0456-001 | 16P CORD ASSY | | AR3000 |
| ⚠ A 24 | QAM0306-001 | 16P CORD ASSY | | LH300 |
| KIT | SRW-200J | SCREW PARTS KIT | A14 A15 A16 A17 A18 | |
| P 1 | GE31164-002A | CARTON | | AR3000 |
| P 1 | GE31161-002A | CARTON | | LH300 |
| P 2 | FSPG4002-001 | POLY BAG | (x2) | |
| P 3 | QPA00801205 | POLY BAG | 8cm x 12cm | |
| P 4 | FSYH4036-068 | SHEET | | |
| P 5 | QPA01003003 | POLY BAG | 10cm x 30cm | |
| P 6 | QPC03004315P | POLY BAG | 30cm x 43cm | |
| P 7 | GE10086-001A | EPS CUSHION | (x2) | |